

From: Whiteman, Brian
Sent: Monday, April 12, 2004 3:35 PM
To: STIC-Biotech/ChemLib
Subject: seq search

09/927,091 Killary et al.
8/9/01

search SEQ ID NO: 1 against us patent and us patent application databases

serach SEQ ID NO: 3 against us patent and us patent application databases

Thank you,

Brian Whiteman
Remsen, 2D14
mail box 2C18
Patent Examiner - Art Unit 1635
United States Patent and Trademark Office
(571) 272-0764

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Searcher: _____
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Online time: _____

TYPE OF SEARCH:
NA Sequences: _____
AA Sequences: _____
Structures: _____
Bibliographic: _____
Litigation: _____
Full text: _____
Patent Family: _____
Other: _____

VENDOR/COST (where applic.)
STN: _____
DIALOG: _____
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DRLink: _____
Lexis/Nexis: _____
Sequence Sys.: _____
WWW/Internet: _____
Other (specify): _____

GenCore version 5.1.6
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OM nucleic search, using sw model

Run on: April 13, 2004, 09:59:27 ; Search time 286 Seconds
 (without alignments)
 7423.923 Million cell updates/sec

Title: US-09-927-091-3
 Perfect score: 3826
 Sequence: 1 agcttcgttggacggc.....aaaaaaa 3826

Scoring table: IDENTITY_NUC
 Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters:

1365418

Minimum DB seq length: 0
 Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
 Maximum Match 100%
 Listing First 45 summaries

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Pre. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	95.8	2.5	1782	4	US-09-230-13-158	Sequence 158, App1	
3	94	2.5	7218	1	US-08-246-14	Sequence 13, App1	
4	86.4	2.3	2936	2	US-08-724-394A-13	Sequence 13, App1	
5	86.4	2.3	2970	4	US-09-566-921-105	Sequence 105, App1	
6	82.8	2.2	3502	2	US-08-724-394A-16	Sequence 16, App1	
7	81.6	2.1	5352	3	US-08-568-136-2	Sequence 2, App1	
8	81.6	2.1	53577	3	US-08-568-136-1	Sequence 1, App1	
9	80.4	2.1	152331	3	US-09-128-156	Sequence 16, App1	
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11	76.2	2.0	1931	2	US-09-130-114-2	Sequence 2, App1	
12	75	2.0	4897	6	519516-7	Patent No. 519516	
13	74.6	1.9	3470	4	US-08-436-147-2	Sequence 2, App1	
C	74.4	1.9	320	3	US-09-155-264-7	Sequence 7, App1	
15	74.2	1.9	16891	4	US-09-485-147-1	Sequence 1, App1	
16	74	1.9	543	4	US-09-485-147-4	Sequence 4, App1	
C	17	1.9	320	3	US-09-165-264-13	Sequence 13, App1	
C	18	1.9	2882	2	US-08-724-394A-12	Sequence 12, App1	
C	19	72.8	1.9	320	3	US-09-165-264-11	Sequence 11, App1
C	20	72.8	1.9	12001	1	US-08-455-568A-11	Sequence 11, App1
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C	23	70	1.8	318	3	US-09-165-264-12	Sequence 12, App1
C	24	69.6	1.8	712	4	US-09-401-064-354	Sequence 354, App1
C	25	63.6	1.7	77536	4	US-09-41-551B-1	Sequence 1, App1
C	26	62.6	1.6	2561	4	US-09-61-289-48	Sequence 48, App1
C	27	60.4	1.6	44377	2	US-08-804-227-7	Sequence 7, App1

ALIGNMENTS

RESULT 1	US-08-724-394A-15	Sequence 15, Application US/08724394A
		; Patent No. 5872237
		GENERAL INFORMATION:
		APPLICANT: Kronmal, Gregory S.
		APPLICANT: Feder, John N.
		APPLICANT: Lauer, Peter M.
		APPLICANT: Ruddy, David A.
		APPLICANT: Thomas, Winston
		APPLICANT: Tsuchihashi, Zenta
		APPLICANT: Wolff, Roger K.
		TITLE OF INVENTION: Megabase Transcript Map: No. 5872237el
		TITLE OF INVENTION: Sequences and Antibodies Thereof
		NUMBER OF SEQUENCES: 31
		CORRESPONDENCE ADDRESS:
		STREET: Two Embarcadero Center, 8th Floor
		CITY: San Francisco
		STATE: CA
		COUNTRY: USA
		ZIP: 94111-3834
		COMPUTER READABLE FORM:
		MEDIUM TYPE: FLOPPY disk
		COMPUTER: IBM PC compatible
		OPERATING SYSTEM: PC-DOS/MS-DOS
		CURRENT APPLICATION DATA:
		APPLICATION NUMBER: US/08/724,394A
		FILING DATE: 01-OCT-1996
		CLASSIFICATION: 536
		ATTORNEY/AGENT INFORMATION:
		NAME: Fitt, Renee A.
		REGISTRATION NUMBER: 35,136
		REGISTRATION/DOCKET NUMBER: 017957-000100
		TELECOMMUNICATION INFORMATION:
		TELEPHONE: 415-576-0200
		TELEFAX: 415-576-0310
		INFORMATION FOR SEQ ID NO. 15:
		SEQUENCE CHARACTERISTICS:
		LENGTH: 3416 base pairs
		TYPE: nucleic acid
		STRANDEDNESS: not relevant
		TOPOLOGY: not relevant
		MOLECULE TYPE: cDNA
		FEATURE:
		NAME/KEY: misc feature
		LOCATION: 1..3416
		OTHER INFORMATION: /note= "cDNA. 44"
		US-08-724-394A-15

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 Matches 10; Conservative 257; Mismatches 117; Indels 0; Gaps 0;

Qy 213 GGATTTGACCCCTTAAGGTCACCCGTCGGATCCCTTCTAGCTTA 272
 Db 1056 GAGCTGATYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1115
 Qy 273 TCCCTTAAGACTGCCCGCCCTAGAACCTCCCGTAGGATCTCCCTCAGCGC 332
 Db 1116 YYY 1175
 Qy 333 TCACAGCTCTCCAGGCCATNGCCTGAGCTGCGCACTAACCTCTAGCTGCCC 392
 Db 1176 YYY 1235
 Qy 393 CGGCTGGCTCCAGACTCTAGCCGACCCCTTCCCTCGCTCG 452
 Db 1236 YYY 1295
 Qy 453 GACAGCAACCCCTCCCTCTCCGGTAGCTTACCCCTGCCCTGCGGGCCCTCG 512
 Qy 512 YYY 1355
 Qy 513 CGCCAGCCCTCGGTGCTGCTCCAGACGGCGGCCCTCTCGGGCCCTGCC 572
 Db 1356 YYY 1415
 Qy 573 TCGGCCCGCCCTCTGCTGCC 596
 Db 1416 YYYYYYYYYYYYYYYYYGTAC 1439

RESULT 4
 Sequence 13, Application US/08724394A
 Patent No. 597237
 GENERAL INFORMATION:
 APPLICANT: Feder, John N.
 APPLICANT: Kronmal, Gregory S.
 APPLICANT: Lauer, Peter M.
 APPLICANT: Ruddy, David A.
 APPLICANT: Thomas, Winston
 APPLICANT: Tsuchihashi, Zenta
 APPLICANT: Wolff, Roger K.
 TITLE OF INVENTION: Megabase Transcript Map: No. 5872237e1
 NUMBER OF SEQUENCES: 31

SEQUENCE CHARACTERISTICS:
 LENGTH: 2926 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: not relevant
 TOPOLOGY: not relevant
 FEATURE: cDNA
 MOLECULE TYPE: cDNA
 NAME/KEY: misc feature
 LOCATION: 1..3926
 OTHER INFORMATION: /note= "cDNA 29"
 US-08-724-394A-13

Query Match 2.3%; Score 86.4; DB 2; Length 2926;
 Best Local Similarity 52.7%; Pred. No. 1.3e-09;
 Matches 216; Conservative 0; Mismatches 206; Indels 6; Gaps 2;

Qy 1483 CCACCGCCCTAACCTGACCCGAGCCACAGGCCCTGATCCTCTGGACGAC 1542
 Db 1196 CCCTGGATGTGTTGATCCATCTCTTGTGTTCTGGGAC 1245
 Qy 1543 TGCACCATTTGGCTTACGGCAACTTGACCCAGCCACTGAGACTCCCAAGGCG 1602
 Db 1246 CAGGAGATGTG--CAGCTGCTGAGAGCGGGATCTGCCAGAACCCGTGAGA 1302
 Qy 1603 TTCCATGTTGGAGGTGTCGTTGGGTTCTGAAGCCCTTCAAGCTGGCCTCATCTGG 1662
 Db 1303 TTGATGATGGTGTACCTGTCCTGGTGTGAAAATCAATCAGGAGCATTACTGG 1362
 Qy 1663 GAGGTGCTGTCGGAGAAGCCAGTGGGTGATGGGTGACCGC--ACGAAAGCGCA 1719
 Db 1363 GAGGTGGAGTGGGGAGAGAAGTGGTATGGGTGATGTTAGAATGGAG 1422
 Qy 1720 AGCCGCAAGGGAGCCATCCAGATGCCAGCCGGGGCTCTACTGCATGTGCAC 1779
 Db 1423 AGGAAAAGGTGGTCAAAATGACACCGAGAAAGGGATACTGGCTGACT 1482
 Qy 1780 GATGCCAACCTAACGGCTCAGGCCCTGAGGGCCCTGAGGGCTTACCTGGCCAG 1839
 Db 1483 GATGGATAAAGTATCGCTCTACTGAGCCAGACCTGAACTTCCTAGCCT 1542
 Qy 1840 CTGACAGTGGTGTCTGGTATGACGAGGTGCTCATCTCATGTCTCATGTCT 1899
 Db 1543 CCTGAGAAAGTGGTCACTGACTGAGATCTGGAGATCTGGTCTTATATGCC 1602
 Qy 1900 GATGACATGTCGGCTTACCTCC 1927
 Db 1603 ACAGATGGATCTCATCTACACCTTC 1630

RESULT 5
 Sequence 105, Application US/09566921
 Patent No. 6682888
 GENERAL INFORMATION:
 APPLICANT: Loring, Jeanne F.
 APPLICANT: Tingley, Debra W.
 APPLICANT: Edwards, Carla M.
 APPLICANT: Edwards, Carla M.
 TITLE OF INVENTION: GENES EXPRESSED IN ALZHEIMER'S DISEASE
 FILE REFERENCE: PA-004 US
 CURRENT APPLICATION NUMBER: US/09/566,921
 CURRENT FILING DATE: 2000-05-05
 NUMBER OF SEQ ID NOS: 138
 SEQ ID NO: 105
 SOFTWARE: PERL Program
 LENGTH: 2970
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE: misc feature
 OTHER INFORMATION: Incyte ID No. 6682888 902288.16
 NAME/KEY: unsure
 LOCATION: 2113-2202
 OTHER INFORMATION: a, t, c, g, or other

REFERENCE/DOCKET NUMBER: 01-1957-000100
 TELEPHONE: 415-576-0200
 TELEFAX: 415-576-0300
 INFORMATION FOR SEQ ID NO: 13:

RESULT 9
 US-09-128-155-16
 ; Sequence 16 Application US/09128155
 ; Patent No. 6117654
 GENERAL INFORMATION:
 ; APPLICANT: Pan, Yang
 ; TITLE OF INVENTION: NOVEL MOLECULES OF TANGO-77 RELATED PROTEIN FAMILY
 ; FILE REFERENCE: 09404/052001
 ; CURRENT APPLICATION NUMBER: US/09/128,155
 ; CURRENT FILING DATE: 1998-08-03
 ; EARLIER APPLICATION NUMBER: US 60/091,650
 ; EARLIER FILING DATE: 1998-07-02
 ; EARLIER APPLICATION NUMBER: US 60/054,646
 ; EARLIER FILING DATE: 1997-08-04
 ; NUMBER OF SEQ ID NOS: 18
 ; SOFTWARE: FastSEQ for Windows Version 3.0
 ; SEQ ID NO: 16
 ; LENGTH: 152331
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: misc_feature
 ; LOCATION: (1)..(152331)
 ; OTHER INFORMATION: n = A,T,C or G
 US-09-128-155-16

Query Match 2.1% Score 80.4; DB 3; Length 152331;
 Best Local Similarity 49.9%; Pred. No. 1e-07; Indels 0; Gaps 0;
 Matches 201; Conservative 0; Mismatches 202;

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Qy	170	CCCCATCCCCAGCTTTCGCCCTCCGGAACTGGCCCCACCCGGGATTCCTTGTGACCCCCCT 229
Db	21882	CC 21941
Qy	230	AAGGGCTTCACCCGGCTTCGGGAATCCCTCTTCTCCAGCTCTATCCCTTAGACTGCCCC 289
Db	21942	CCCCCAGCC 22001
Qy	290	GCCCCCTTAACTCCCGTGAAGTGGCAACTTCTAGACTGCCCCGGCTGGCTCCACG 349
Db	22002	CCCCCGGCC 22061
Qy	350	CGCCCATGCGCTTGAAGTGGCAACTTCTAGACTGCCCCGGCTGGCTCCACG 409
Db	22062	ACCGGGCCAAAGCGACCCCCCAACCCGACCCCCGGCCCCCCCCCCCCCCCCCCCC 22121
Qy	410	GAGCTCTAGCCCCGACCCCCCTTCCTGGTTACCCCTTCCTGGACAGAACCCCTCCCT 469
Db	22122	CCCCCCCCGGCCCCGGCCCCGGGACCCCCGACCCCCGGCCCCGGCCCCGGCCCC 22181
Qy	470	TCTCCGGTAGCTCTAACCCCTTCTGGGGCCCTGTCCTCCGGCCCCAACGGCTGGTGC 529
Db	22182	CCCCCCCCGGGCC 22241
Qy	530	TGGCTCGGACGGCGCGCTTCCTAGCCCCCCCCGGCTGGCC 572
Db	22242	GGGGCCCCAACCCCCAACCCCCCCCCGGCCCCCCCCCCCCCCCCCCCCCCCC 22284

RESULT 10
 US-09-249-585A-4
 ; Sequence 4 Application US/09249585A
 ; Patent No. 6417002

RESULT 10
US-00-249-585A-4
; Sequence 4, Application US/09249585A
; Patent No. 6417002

Patent No. 6627745
 GENERAL INFORMATION
 APPLICANT: The Government of the United States of America, as
 represented by the Secretary, Department of Health and Human
 Services
 APPLICANT: Daniel L. Kastner
 APPLICANT: Ivona Aksentijevich
 APPLICANT: Michael Centola
 APPLICANT: Zuloming Deng
 APPLICANT: Raman Sood
 APPLICANT: Francis S. Collins
 APPLICANT: Trevor Blake
 APPLICANT: P. Paul Liu
 APPLICANT: Deborah Gumucio
 APPLICANT: Robert I. Richards
 APPLICANT: Darrell O. Ricke
 APPLICANT: No. 6627745 man A. Doggett
 APPLICANT: Moraechai Pras
 TITLE OF INVENTION: IDENTIFICATION OF THE GENE CAUSING
 FAMILY MEDITTERANEAN FEVER
 FILE REFERENCE: 14014-0314AU
 CURRENT APPLICATION NUMBER: US/09/486,147
 CURRENT FILING DATE: 2000-08-07
 PRIOR APPLICATION NUMBER: PCT/US98/17255
 PRIOR FILING DATE: 1998-08-20
 PRIOR APPLICATION NUMBER: 60/056,217
 PRIOR FILING DATE: 1997-08-21
 NUMBER OF SEQ ID NOS: 45
 SOFTWARE: FastSeq for Windows Version 4.0
 SEQ ID NO: 2
 LENGTH: 3470
 TYPE: DNA
 ORGANISM: homo sapiens
 FEATURE:
 US-09-486-147-2

Query Match 1.9%; Score 74.6; DB 4; Length 3470;
 Best Local Similarity 50.1%; Pred. No. 5 5e-07;
 Matches 241; Conservative 0; Mismatches 234; Indels 6; Gaps 2;
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 Db 1799 TGAATTCTGGATGAGAAACCGCTTACCCAAACCTCATCTCTGATCTGAAGTG 1858
 Qy 1553 TGGCTTAAGGCAACTTGACCCACAGCCTGAGGACTCTGGCAAAAGGCTTCGATGG 1612
 Db 1859 TTAGACTGAAAC---AAGTGGGAGGGCTGCTGATGGCCCAAAAGATTGACAGT 1915
 Qy 1613 AGGTGTGGCTGGTCTGAAGCTTCTAGTACTGGCTTCACTACTGGACCTGGTGG 1672
 Db 1916 GTATCATGTTCTGGCTCTCCGAGTTCTCTGGAGTTCTGGAGCTGGGG 1975
 Qy 1673 TGGCGGAAGAACCCAGGGTGTGATGGCTGGCACACAAGCGCAAGGCCA 1732
 Db 1976 TTGGAGAACAGAACAGCTGAGCTGGATCTGGAGCTCATCAGAGCA 2035
 Qy 1733 GCATCCAGATCGAGCCAGGGCTTCTACTGCACTGATGCAAGCTGG 1792
 Db 2036 ACATGACTCTGCGAGATGGTACTGGCTGTTAATGAGAAATGAGT 2095
 Qy 1793 ACAGGGCTGAGGGGCCCTGGAGGGCTTAACTGGCTGGCACATCAGAGGG 1852
 Db 2096 ACCAGGGCTCAGCTGGTCTCCGGACGGCTGGATAAAGGGCTGG 2155
 Qy 1853 GTGCTCTGGACTATGACCAAGGCTGTCATCTCATGACATGTCCT 1912
 Db 2156 GCATCTGGACTACAGACTGGAGCTGAGCTGGCTGAGCTGG 2215
 Qy 1913 GGCTCTAACCTT---CGCGAGAGTCTGGAGGCTGCTCTACTTGAGCCCTG 1969
 Db 2216 ACATGATACATCGCAGCTGCTTCTGGCCCTCAACCTATCTGGCCCTG 2275
 Qy 1970 G 1970

RESULT 15
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 Sequence 1, Application US/09/486147
 Patent No. 6627745
 GENERAL INFORMATION:
 APPLICANT: The Government of the United States of America, as
 represented by the Secretary, Department of Health and Human
 Services
 APPLICANT: Daniel L. Kastner
 APPLICANT: Ivona Aksentijevich
 APPLICANT: Michael Centola
 APPLICANT: Zuloming Deng
 APPLICANT: Raman Sood
 APPLICANT: Francis S. Collins
 APPLICANT: Trevor Blake
 APPLICANT: P. Paul Liu
 APPLICANT: Deborah Gumucio
 APPLICANT: Robert I. Richards
 APPLICANT: Darrell O. Ricke
 APPLICANT: No. 6627745 man A. Doggett

APPLICANT: Morechaia, Pras
 TITLE OF INVENTION: IDENTIFICATION OF THE GENE CAUSING
 FAMILY MEDITTERANEAN FEVER
 FILE REFERENCE: 14014 0314U1
 CURRENT APPLICATION NUMBER: US/09/486,147
 CURRENT FILING DATE: 2009-08-07
 PCT/US98/17255
 PRIOR APPLICATION NUMBER: PCT/US98/1598-08-20
 PRIOR FILING DATE: 1998-08-21
 PCT/US97/056,217
 PRIOR FILING DATE: 1997-08-21
 NUMBER OF SEQ ID NCS: 45
 SEQ ID NO: 1
 SOFTWARE: FastSEQ for Windows Version 4.0
 LENGTH: 16891
 TYPE: DNA
 ORGANISM: homo sapiens
 FEATURE:
 NAME/KEY: misc_feature
 LOCATION: (0) .. (0)
 OTHER INFORMATION: n = a, t, c, or g

US-09-486-147-1

Query Match 1.9%; Score 74.2; DB 4; Length 16891;
 Best Local Similarity 49.9%; Pred. No. 1.1e-06;
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 Score 74.2; DB 4; Length 16891;

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 Db 13903 TGATTCGAGTCAGAAACCCCTTAACCAACCTCATTCCTGATGATCTGAGATG 13962

Qy 1553 TGGCTTACGGAACTGGACACAGCCACAGCCACCTGAGGACTCGCCAAGGCCCTTCGATGCG 1612
 Db 13963 TTAGACTTGGAAAC--AAGTGGAGGGCTGCCATGCCCGAAAGATTACAGGT 14019

Qy 1613 AGGTGTTGGTGTGGTTCTAAGGCTTCACTAGTGGCTCACTCGAGGGTGGCG 1672
 Db 14020 GATATCATTTGTTGGCTCTCGAGTTCTCTCTCTCGCCGGTTACTCGAGGTGGCG 14079

Qy 1673 TGGGAGAAAGACCCAGTGGTGTGGTGTGGCTGCAACAGGCCCAGCCAAAGGCA 1732
 Db 14080 TTGGAGCAAGACGATGGATGGATGGATGGATGGATGGATGGATGGATGGATGG 14139

Qy 1733 GCATCCAGATGCCAGCCGGCTTCTACTGATCTGGTGTGGATGGAAATGAGT 1792
 Db 14140 ATATGACTCTGTGCGCAAGAATGGTCACTGGTGTGGATGGATGGATGGATGG 14199

Qy 1793 ACAGCGCTGTGACGGACGGCCGCGACGGCTTAACGTCGGACAGCTGACAGGTGG 1852
 Db 14220 ACCAGGGTCCAGCGTTCAGGCTCCAGCCGACCCGCTTAAGAGCTCCAGCGTGG 14259

Qy 1853 GTGTCCTCTGGACTAATGACCAAGGGCTTGTCTCATCTTCAATGCTGATGACATGTCCT 1912
 Db 14220 GCACTCTGGTGGACTAAGAGTTGGACATCTCCCTTAATGTCAGCGCCTGCC 14319

Qy 1913 GGCTCTAACCTT--CCGGCGAAAGTCCCTGGCAAGCTGCTGCTTCAACGCTGCC 1969
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Qy 1970 G 1970
 Db 14380 G 14380

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2657.352 Million cell updates/sec

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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3	613	24.5	500	9	US-09-927-091-466	Sequence 466, App
4	613	24.5	500	10	US-09-976-997-466	Sequence 943, App
5	583	23.3	580	9	US-09-927-301-943	Sequence 2, App1
6	550.5	22.0	485	14	US-09-927-312-2	Sequence 2615, App
7	541.5	21.6	485	15	US-10-094-749-2615	Sequence 3482, App
8	501	20.0	471	15	US-10-104-047-3482	Sequence 3664, App
9	500	20.0	468	15	US-10-104-047-3664	Sequence 74, App1
10	499.5	19.9	467	15	US-10-093-467-74	Sequence 97, App1
11	492	19.6	465	14	US-10-094-298A-97	Sequence 97, App1
12	492	19.6	465	14	US-10-092-211A-97	Sequence 99, App1
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15	475.5	19.0	469	15	US-10-093-463-72	

ALIGNMENTS

Sequence 4617, App

Sequence 65, App1

Sequence 78, App1

Sequence 2393, App

Sequence 82, App1

Sequence 106, App

Sequence 6, App1

Sequence 64, App1

Sequence 64, App1

Sequence 3289, App

Sequence 1031, App

Sequence 3098, App

Sequence 36547, App

Sequence 34, App1

Sequence 16, App1

Sequence 22, App1

Sequence 18, App1

Sequence 17, App1

Sequence 2073, App

Sequence 18, App1

Sequence 172, App

Sequence 105, App

Sequence 8, App1

Sequence 54, App1

Sequence 10, App1

Sequence 81, App1

Sequence 10, App1

Sequence 16, App1

Sequence 1, Application US/09327091

Patent No. US2002019541A1

GENERAL INFORMATION:

APPLICANT: KILLARY, ANN

APPLICANT: LOTI, STEVE

APPLICANT: CHANDLER, DAWN

TITLE OF INVENTION: THE TUMOR SUPPRESSOR CAR-1

FILE REFERENCE: US2002019541A1

CURRENT APPLICATION NUMBER: US/09/927,091

CURRENT FILING DATE: 2001-08-09

PRIOR APPLICATION NUMBER: 60/227,560

PRIOR FILING DATE: 2000-08-23

PRIOR APPLICATION NUMBER: 60/225,033

PRIOR FILING DATE: 2000-08-10

NUMBER OF SEQ ID NOS: 9

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 1

TYPE: PRT

ORGANISM: Human

US-09-927-091-1

Result No.	Score	Query	Match	Length	DB ID	Description
1	2504	100.0	475	9	US-09-927-091-1	Sequence 1, App1
2	1312	52.4	304	9	US-09-927-091-2	Sequence 2, App1
3	613	24.5	500	9	US-09-927-091-466	Sequence 466, App
4	613	24.5	500	10	US-09-976-997-466	Sequence 943, App
5	583	23.3	580	9	US-09-927-301-943	Sequence 2, App1
6	550.5	22.0	485	14	US-09-927-312-2	Sequence 2615, App
7	541.5	21.6	485	15	US-10-094-749-2615	Sequence 3482, App
8	501	20.0	471	15	US-10-104-047-3482	Sequence 3664, App
9	500	20.0	468	15	US-10-104-047-3664	Sequence 74, App1
10	499.5	19.9	467	15	US-10-093-467-74	Sequence 97, App1
11	492	19.6	465	14	US-10-094-298A-97	Sequence 97, App1
12	492	19.6	465	14	US-10-092-211A-97	Sequence 99, App1
13	489	19.5	465	14	US-10-094-298A-99	Sequence 99, App1
14	489	19.5	465	14	US-10-092-211A-99	Sequence 72, App1
15	475.5	19.0	469	15	US-10-093-463-72	

RESULT 2
 US-09-927-091-2
 Sequence 2, Application US/0927091
 Patent No. US20020119541A1
 GENERAL INFORMATION:
 APPLICANT: KILLARY, ANN
 ADDRESS: 1000 15TH ST. NW
 CITY: WASHINGTON
 STATE: DC
 ZIP: 20004
 COUNTRY: US
 TITLE OF INVENTION: TUMOR SUPPRESSOR CAR-1
 FILE REFERENCE: USC:65:US
 CURRENT FILING DATE: 2001-08-09
 PRIORITY APPLICATION NUMBER: 60/227,560
 PRIORITY FILING DATE: 2000-08-23
 NUMBER OF SEQ ID NOS: 9
 SOFTWARE: Patentin Ver. 2.1
 SEQ ID NO: 2
 LENGTH: 304
 TYPE: PRT
 ORGANISM: Human

Query Match 52.4%; Score 1312; DB 9; Length 304;
 Best Local Similarity 91.8%; Pred. No. 7.4e-102;
 Matches 257; Conservative 2; Mismatches 5; Indels 16; Gaps 1;

Db 1 MACSLKDELLCSICLISYDPSVLGCEHYCRCTIEHMYRQAEQARDCPECRRTAEP 60
 Db 1 MACSLKDELLCSICLISYDPSVLGCEHYCRCTIEHMYRQAEQARDCPECRRTAEP 60
 Qy 61 ALAPSLKIANIVERYSSFLDAILNARAAARPQAOHDYKLFCLTDRAILCFCDEPAHL 120
 Db 61 ALAPSLKIANIVERYSSFLDAILNARAAARPQAOHDYKLFCLTDRAILCFCDEPAHL 120
 Qy 121 EQHQVTTGDDAFLKDLQDLSERETEALKRQAAETSKSLRTTIGE 180
 Db 121 EQHQVTTGDDAFLKDLQDLSERETEALKRQAAETSKSLRTTIGE 180

Query Match 24.5%; Score 613; DB 9; Length 500;
 Best Local Similarity 31.6%; Pred. No. 8.7e-43;
 Matches 148; Conservative 83; Mismatches 222; Indels 16; Gaps 8;

Qy 8 ELLCICLISYDPSVLGCEHYCRCTIEHMYRQAEQARDCPECRRTAEPALPSLK 67
 Db 38 ELLHCPICNDRFDPMILSOGHNFACIACQDFWRLQAKE--TFCPECRMLCQVNCFNPV 95
 Qy 68 IANIVIERYSSFLDAILNARAAARPQAH-DYKFLFLCDRAILCFCDEPAHL-EHQH 124
 Db 96 LDKLYBEKIKPLP-----LKGHPQCPHGENUKLPSKPDGKLCIFQKDARLSSVCSKE 149
 Qy 125 VTGIDDAFLDOLRKLQDQLQDLSERETEALKRQAAETSKSLRTTIGSAFER 184
 Db 150 FLOQSDAVHFFMEEIAQGQLETTKELQTLRNMOKEAIAHKENKLQHVSNEFLK 209
 Qy 185 LHRLLEROKAMJLEBDAITARPLTDIEQKQVYSSQQLRKYQBGQLQERLAETRHTF 244
 Db 210 LHQFLHSKEDKILTEBEGKALNEEMELNLSQLQEQLLADMLYSIQATEQONSFDF 269
 Qy 245 LAGVASLSELRLKG--KIHET-NITYEDPPTSKYTKGQYQTYIWKSLFODIHVPAAITLDP 301
 Db 270 LKDITLHSLEQGMKVLAETRELISRKUNLQGQYKGPQYMTKREMDQTLQGLSPTLDP 329

Query Match 24.4%; Score 613; DB 9; Length 500;
 Best Local Similarity 31.6%; Pred. No. 8.7e-43;
 Matches 148; Conservative 83; Mismatches 222; Indels 16; Gaps 8;

Qy 302 GTAHRLILSDDCTIVLHQPLODSPKRFDVVEVSVLGEAFTSGVHWEVVAEKT 361
 Db 330 KTAHNLVLSKSQTWSWHDGI-KKIMPPDDPERDSAVAVLGSRCFGISGKWTWVEVAKCT 388

Qy 362 QWVIGLAEHAASRAGKSIQIOPSRGFYCLVMDHGNQISACTEFWTRIUNRDKLKVGVFLD 421
 Db 389 KWTGTVVRVSIITRGSCPLTPEQFWLRLQTDXALDLSFSLTNNLDKYGJYLD 448
 Qy 422 YDGQHIFNADMSWLYTFREKPGKLCSYFSPGOSHANGRNVOPPLRI 470
 Db 449 YEGGOLSFTNAKTMHIIITFSNTFMERKYPFCPCINDGR-ENKEPLHI 496

RESULT 4
 US-09-876-997-466
 Sequence 4.6%; Application US/09876997
 Publication No. US20030152921A1
 GENERAL INFORMATION:
 APPLICANT: Dumas Milne Edwards, Jean Baptiste
 ADDRESS: 1000 15TH ST. NW
 CITY: WASHINGTON
 STATE: DC
 ZIP: 20004
 COUNTRY: US
 TITLE OF INVENTION: FULL-LENGTH HUMAN CDNAS ENCODING POTENTIALLY SECRETED PROTEINS
 FILE REFERENCE: 78-104-CIP
 CURRENT APPLICATION NUMBER: US/09/876,997
 CURRENT FILING DATE: 2001-06-08
 PRIORITY APPLICATION NUMBER: US 09/731,872

RESULT 3

>

PRIOR FILING DATE: 2000-12-07
 PRIOR APPLICATION NUMBER: US 60/187,470
 PRIOR FILING DATE: 2000-03-06
 PRIOR APPLICATION NUMBER: US 60/169,629
 PRIOR FILING DATE: 1999-12-08
 NUMBER OF SEQ ID NOS: 482
 SOFTWARE: Patent-PM
 SEQ ID NO: 466
 LENGTH: 500
 TYPE: PRT
 ORGANISM: Homo sapiens
 SEQ ID NO: 943
 LENGTH: 580;
 Query Match 24.5%; Score 613; DB 10; Length 500;
 Best Local Similarity 31.6%; Pred. No. 8.7e-43;
 Matches 148; Conservative 83; Mismatches 222; Indels 16; Gaps 8;
 Y 8 ELLCICLISIYDOPVSLGCPHYFCIRCITBHWVROEAQARDCPECRTPAEPALAPSIX 67
 b 38 ELRCPCLNDWRDPMLSCGNFCEACIQDFWRLQAKE--TFCPEBCNPNV 95
 Y 68 LANIVRYSSPFLDAILNAAARPOAH-DKVKLFCITDALLCFFCDPAPLH -EQHQ 124
 b 96 LDKLVEKIKLQLP-----LGKHPQCPHEGNLKLFSKPKDRLCQKDAARLSVGQSKE 149
 Y 125 VTGIDDAFDELOREKLQDQLQDSEPREHTBALQKLKQLAETKSSTKSRTTIGEAPEF 184
 b 150 FLQISPAVHFFMEEBLAQGQLETTKLQELQTLIRNMQKEAAHKENKLHQQHVSMEFLX 209
 Y 185 LHLREROKAMLEADARTLTLDIEQKQVRYSSQOLRKVQEGAOILQERLAEIDRHTF 244
 b 210 LHQFLISKEKDILTEREGKALNEEMELNISQLQOCLLAKDMLVSIQAKTBQNSDF 269
 Y 245 LAGVASLSELRKG--KIHET-NLTYDEPFTSKYTGPOIYTIWKS-LFQDIHVPAAITLDP 301
 b 270 LRDITLHSQGMKVLTARELISKLNQGKQYKGPQYMMWREMOTLCPGLSPITLDP 329
 Y 302 GTAHQBLILSDDCTIVAYGNLHQPLQDPSKPKRFDVEVSVLQSEAFTSGVHIVWVVAEKT 361
 b 330 KTAHPNVLVLSKSQTSWHDGI KKIMDDPERFDSSAVLGSRGFTSGKWWVEVAKRT 388
 Y 362 ,QVIGLAHEAASRKGSITQIQPGRGYCJIVMDGNQVSACTSPWTRLNVRDKLKVYFLD 421
 b 389 KMTVGVYRESIRKGSCPLTPQGFMLLRLRQDLSPLSFSLTLLNLDKVGTYIYL 448
 Y 422 YDQGLIJFYNADMSWLYTFREKFGKLSYSPGQSHANGKVNQDPI 470
 b 449 YEGGQISFYNAKTMTHYTFNTSMEMELYYPIFCPLCLNDGR-ENKEPLHI 496
 Y RESULT 6
 b US-10-276-372-2
 ; Sequence 2, Application US/10276372
 ; Publication No. US20030186269A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Bahr, Georges
 ; APPLICANT: Coclard, Cecile
 ; APPLICANT: Capron, Andre
 ; TITLE OF INVENTION: SSA-56 kDa Polypeptide and its Fragments and Polynucleotides
 ; FILE REFERENCE: 017753-171
 ; CURRENT APPLICATION NUMBER: US/10/276,372
 ; CURRENT FILING DATE: 2000-11-15
 ; PRIOR APPLICATION NUMBER: FR 00/06315
 ; PRIOR FILING DATE: 2000-05-17
 ; PRIOR APPLICATION NUMBER: PCT/FR 01/00725
 ; PRIOR FILING DATE: 2001-03-12
 ; NUMBER OF SEQ ID NOS: 29
 ; SOFTWARE: FastSeq For Windows Version 4.0
 ; SEQ ID NO 2
 ; LENGTH: 485
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; FEATURE: SITE
 ; LOCATION: (52)
 ; RESULT 5
 ; Sequence 43, Application US/0925301
 ; CURRENT APPLICATION NUMBER: US/09/925,301
 ; CURRENT FILING DATE: 2001-08-10
 ; PRIOR APPLICATION NUMBER: PCT/US00/058982
 ; PRIOR FILING DATE: 2000-03-08
 ; PRIOR APPLICATION NUMBER: 60/124,270
 ; PRIOR FILING DATE: 1999-03-12
 ; NUMBER OF SEQ ID NOS: 1694
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 943
 ; LENGTH: 580
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; FEATURE: SITE
 ; LOCATION: (52)
 ; Query Match 22.0%; Score 550.5; DB 14; Length 485;

RESULT 7

US-10-094-749-2615
Sequence 2615, Application US/10094749
Publication No. US0030219741A1
GENERAL INFORMATION:

APPLICANT: ISOGAI, TARAO
APPLICANT: SUGIYAMA, TOMOYASU
APPLICANT: OTSUKI, TETSUJI
APPLICANT: WAKAMATSU, AI
APPLICANT: SATO, HIROYUKI
APPLICANT: ISHII, SHIZUKO
APPLICANT: YAMAMOTO, JUN-ICHI
APPLICANT: ISONO, YUUKO
APPLICANT: HIO, YURI
APPLICANT: OTSUKA, KAORU
APPLICANT: NAGAI, KEIICHI
APPLICANT: IRIE, RYOTARO
APPLICANT: TAMECHIKA, ICHIRO
APPLICANT: SERIKI, NACHIKO
APPLICANT: YOSHIKAWA, TSUTOMU
APPLICANT: OTSUKA, MOTOKI
APPLICANT: NAGAHARI, KENJI
APPLICANT: MASUO, YASUHIKO

TITLE OF INVENTION: NOVEL FULL-LENGTH CDNA
FILE REFERENCE: 084335/0160
CURRENT APPLICATION NUMBER: US/10/094,749
CURRENT FILING DATE: 2002-03-12
PRIOR APPLICATION NUMBER: 60/3350,435
PRIOR FILING DATE: 2002-01-24
PRIOR APPLICATION NUMBER: JP 2001-328381
NUMBER OF SEQ ID NOS: 3381
SOFTWARE: PatentIn Ver. 2.1

Db	9 NQEESSCPICLEYLDPPVTINGHNFCSRSLSVN-KOLDDTTPCPVCRCPYKSTR 66	Db	177 VVSEYMMRHOFKEEBBLQLOLQESEKENRKRANEIKUTQTRS-----LSKMI 229		
Qy	64 PSILKLANIVERYSSFPIDAILNARRAP-----CQAHDK-VKLFCLTDRALLCFFCD 115	Qy	237 AETDRHTFLAGVSLSERLKGTHT-----NLTYEDFTSKYTGPLQYTIWKSFLQ 288		
Db	67 RNPQLRNLT-----IAKLOIQRSSKRKROKENAMCERENQFLTFCRDLIELTQOS 120	Db	230 AQQESSSSQSSAFSL-EFRVGALERSEPEATLLESLCIR-----MKE 279		
Qy	116 EPALHEDQVGTGIDDAFDELRELDQDLSERBHTALQJLKRQLAETKSSTKSR 175	Qy	289 DHEHVPALLTLDGTAGTAAHDLISDDCTIVAGNLHPODLSDFRKFDEVUSLGSFASS 348		
Db	121 ESTRHOHQYICPICKRASYHREILESSLEPLRNNIEVERVILLOGSKSYELKKVEYR 180	Db	280 MLRKESTETLDDATANAYLVLSEDLSKVKGSR-QQLDPNEFQOSATVLGTOIFTS 338		
Qy	176 TTGEAFERLHLLRERQKAMLEELRADTARTLTDIEQKTVORYSQRKVKQEGAQIQLER 235	Qy	349 GHVWEVYVAEKTOVWIGAHEAASRKSIQIOPSSRGPYCIWHDGNGQSA-CTEPWTRL 407		
Db	181 EBNSEPEQIRFLQNEQEMLRQIDBEMTIA-----KLNELVLESLDYLSTKHL 233	Db	339 GHVWEVYGNTEWICKDSVSRCMPLPKPGDFLSLIGKIDSYLWYSSPLKGQ 398		
Qy	236 LAETDRHTFLAGVSLSERLKGIHE-TNLTYED----FPTISKY-TGPIQYTIWKSFLQD 289	Qy	408 NYRDLDKVGVFLDYDGQILIFYNADDMWSWLTF-REXFPGLCISYFSPGQSHANGRNVQ 466		
Db	234 LREVEGKSVOSNLELLTO-AKSMHECYQNCKCPPELSFRUTLKYGSLPQYIS--GLDRI 289	Db	399 HVREPVCKGVFLDYESCHIAFINGTDESLSLTSFQASFOEARLPIFSPCLPN-EGNTD 457		
Qy	290 IHPVPAALTDLDPGTAAHDLISDDCTIVAGNLHPODLSDFRKFDEVUSLGSFASSG 349	Qy	467 PLRI 470		
Db	290 IKPQFDVTDLNTAHQPLLVSEDRAKARYERKRNKICYD-PRREVCPAVLGSQRFSSG 348	Db	458 PLTI 461		
Qy	350 VHVWEVYVAEKTOVWIGAHEAASRKSIQIOPSSRGPYCIWHDGNGQSA-CTEPWTRL 407	RESULT 1.0			
Db	349 RHYWEVYGNTRKGVFLDYDGQILIFYNADDMWSWLTF-REXFPGLCISYFSPGQSHANGRNVQD 406	US-10-091-463-74			
Qy	408 NYRDLDKVGVFLDYDGQILIFYNADDMWSWLTF-REXFPGLCISYFSPGQSHANGRNVQ 467	Sequence 74, Application US/10093463			
Db	407 LPVVKPSIIGIFLDYELQDLSFYNMNDLSILYTFNDCTEAWVPIF----YGTDSSEP 460	; General Information:			
Qy	468 LINTY 473	; APPLICANT: Padigaru, Muralidhara			
Db	461 LKICSV 466	; APPLICANT: Sheony, Suresh			
RESULT 9					
US-10-104-047-3-664					
; Sequence 3664, Application US/10104047					
; General Information					
; APPLICANT: HELIX RESEARCH INSTITUTE					
; TITLE OF INVENTION: NO. US200302363924a1 full length cDNA					
; FILE REFERENCE: H1-A0105					
; CURRENT APPLICATION NUMBER: US/10/104,047					
; PRIOR APPLICATION NUMBER:					
; PRIOR FILING DATE:					
; NUMBER OF SEQ ID NOS: 4096					
; SOFTWARE: Patentin Ver. 2.1					
; SEQ ID NO 3664					
; LENGTH: 468					
; TYPE: PRT					
; ORGANISM: Homo sapiens					
; US-10-104-047-3-664					
Query Match 20.0% Score 500; DB 15; Length 468;					
Best Local Similarity 27.5% Prod. No. 2.5e-31; Mismatches 91; Indels 48; Gaps 11;					
Matches 133; Conservative 91; Mismatches 212; Indels 48; Gaps 11;					
Qy	4 SLDKELLSICLSTYQDPVSLGCGBHYFRCRCITEHYWQEAQARDGPECRTRFAPALA 63	Db	118		
Db	9 NLRBELTICLDFLSSPTECHSFLVLLRSW-BEANTPLSPECHTLEPHQ 66	Qy	64 PSILKLANIVERYSSFPIDAILNARRAARPCQAHDKVFLCFLTDRLLCFFCDEPA----118		
Qy	67 SNERLGRIL-----ASIAORLRSVLTQSDEQGSGRMPTAKALSDDEQGSSAFV 116	Db	67 SNERLGRIL-----ASIAORLRSVLTQSDEQGSGRMPTAKALSDDEQGSSAFV 116		
Qy	119 -LHEQHQVGTGIDDAFDELQDQLQALQOSERENTEALQJLKRQLAETKSSTSRLT 176	Db	117 AQSHGANTVHLSSEEEHREKQJLILVRLVERKEADEVLTKEVKLCOBETTKCQ 176		
Qy	177 TTGEAFERLHLLRERQKAMLEELRADTARTLTDIEQKTVORYSQRKVKQEGAQIQLERL 236	Qy	177 TTGEAFERLHLLRERQKAMLEELRADTARTLTDIEQKTVORYSQRKVKQEGAQIQLERL 236		

PRIOR APPLICATION NUMBER: 60/304,354
 PRIOR FILING DATE: 2001-07-10
 PRIOR APPLICATION NUMBER: 60/279,995
 PRIOR FILING DATE: 2001-03-30
 PRIOR APPLICATION NUMBER: 60/294,899
 PRIOR FILING DATE: 2001-05-31
 PRIOR APPLICATION NUMBER: 60/287,424
 PRIOR FILING DATE: 2001-04-30
 PRIOR APPLICATION NUMBER: 60/299,027
 PRIOR FILING DATE: 2001-06-18
 PRIOR APPLICATION NUMBER: 60/309,198
 PRIOR FILING DATE: 2001-07-31
 PRIOR APPLICATION NUMBER: 60/281,194
 PRIOR FILING DATE: 2001-04-04
 PRIOR APPLICATION NUMBER: 60/274,194
 PRIOR FILING DATE: 2001-03-03
 PRIOR APPLICATION NUMBER: 60/274,849
 PRIOR FILING DATE: 2001-03-09
 PRIOR APPLICATION NUMBER: 60/330,380
 PRIOR FILING DATE: 2001-10-18
 PRIOR APPLICATION NUMBER: 60/275,235
 PRIOR FILING DATE: 2001-03-12
 PRIOR APPLICATION NUMBER: 60/288,342
 PRIOR FILING DATE: 2001-05-03
 PRIOR APPLICATION NUMBER: 60/275,578
 PRIOR FILING DATE: 2001-03-13
 NUMBER OF SEQ ID NOS: 370
 SOFTWARE: Patentin Ver. 2.1
 SEQ ID NO: 74
 LENGTH: 4675
 TYPE: PRT
 ORGANISM: Homo sapiens
 US-10-093-463-74

Query Match 19.9%; Score 499.5; DB 15; Length 4675;
 Best Local Similarity 27.2%; Pred. No. 7, 4e-32; Indels 189; Gaps 18;
 Matches 166; Conservative

Qy 1 MACSLKDELCSICLISIYDPPVSLGCHEYFCCRRCITEHVRQDQGADCPECRRTPAEP 60
 Db 4076 LSTNLQEEATACIUDYPTPVMTCGHNFCRECIRRCWQGPB-GPPACPBCELSFQR 4133

Qy 61 ALAPSLKLANIUVRSSEFFDALLNARBARP-----CQAH-DKYLKFCLTDRALCF 112
 Db 4134 NLREPNPLAKAEM-----ARLHPPSPVPOQYCPAIREPLAFCGDBLRLICA 4182

Cy 113 FCDEPALHQQVGTQGIDDADELOPELKLQDLSSEPRETEALQLLKQRLAET---K 168
 Db 4183 ACERSGEHWHRPLQDAEDLAKLXKLESLHL---PKQMDALIPOAQADETCVWQ 4238

Cy 169 SSTKSPLRTTICEAFLERHLIRE-----RQAMBLEBLEADTARTL-----208
 Db 4239 KMWESRQNVLGEFPLRLLAEGSTAAREAGEBELLKOSAHAAELIELERLPLAAG 4298

Qy 209 -----TDEQKVORYSOOLRKYDQGAQILQBLAETRH 242
 Db 4299 AAAGESPMCGIHSLSRPPGYPQMPKBPVDALACAWR-----QCCQTOVQEPMLQ 4352

Cy 243 TFLAGVSLSLRKLKGITHETLTYDEPTSKYTKTGP---LQYTIWK-----SLFDIH 291
 Db 4353 MWLGCPAQGVTLLPASGAQNI-----BPGTGSWFRUSFLLPGYKCSQSYAIVWVH 4405

Cy 297 -----PUPAA-----296
 Db 4406 TVPKTKPBCRGQSPLPPSPSPAPAPGLYTTATCQMTPGVGRPPQDITKDAARRQVQK 4465

Cy 292 -----296
 Db 4466 LQPPETVPMELRTVCRVPLGVLVETLRRFGDVTLDPTANBELLSEDRSVQGDLR-QA 4524

Cy 327 LDSPSKRFDVEVSVLGSEAFSSGVHWEVVAEKTQVIGLAHEAASRGKSIQTOPSGF 386

Cy 348 SGVHYWVVAEKTQVIGLAHEAASRKGSQIQQPSRGFYCIVMMMDGQNSACTBPWTRL 407

Qy 387 YCIVMHGDGNQYSACTEPNTRNVRDKDVKGVFDYDQGLLTFYNADMSWLYTRE-KP 445
 Db 4585 WILVFL-GSYNNSBRALAPL-RDPPRVRGIFLDYERGLHSYATDGSLSFIFPEPF 4641

Qy 446 PGKJCSYFSP 455
 Db 4642 SGTLRPLFSP 4651

RESULT 11
 US-10-024-298A-97
 Sequence 97, Application US/10024298A.
 Publication No. US20030143540A1
 GENERAL INFORMATION:
 APPLICANT: AKIHI KASEKI KAISHIKI KAISHA
 APPLICANT: Goichi HONDA
 APPLICANT: Shuji MURAMATSU
 APPLICANT: Yukiko NAGANO
 TITLE OF INVENTION: N-P-K B Activating Gene
 FILE REFERENCE: 1254-0191P
 CURRENT APPLICATION NUMBER: US/10/024,298A
 CURRENT FILING DATE: 2003-04-08
 PRIOR APPLICATION NUMBER: 60/314,385
 PRIOR FILING DATE: 2001-08-24
 PRIOR APPLICATION NUMBER: 60/278,641
 PRIOR FILING DATE: 2001-03-06
 PRIOR APPLICATION NUMBER: 60/258,315
 PRIOR FILING DATE: 2000-12-28
 PRIOR APPLICATION NUMBER: JP254018/2001
 PRIOR FILING DATE: 2001-08-24
 PRIOR APPLICATION NUMBER: JP0088912/2001
 PRIOR FILING DATE: 2001-03-26
 PRIOR APPLICATION NUMBER: JP402288/2000
 NUMBER OF SEQ ID NOS: 182
 SOFTWARE: Patentin Ver. 2.0
 SEQ ID NO: 97
 LENGTH: 465
 TYPE: PRT
 ORGANISM: Homo sapiens
 US-10-024-298A-97

Query Match 19.6%; Score 492; DB 14; Length 465;
 Best Local Similarity 29.3%; Pred. No. 1.e-32;
 Matches 137; Conservative 80; Mismatches 206; Indels 44; Gaps 11;

Qy 5 LKDELUSICUSIYDPPVSLCCEHVFCCRRCITEHVRQEAQGARD---CPECRTFAEP 60
 Db 10 MNEEATCSICLUSLMTIPVSINCGHSYCHLCTDFKPNPSQKLRLQBTFCFCPQCRPEMID 69

Cy 61 ALAPSLKLANIUVRSSEFFDALLNARBARP-----RQAMBLEBLEADTARTL-----K 119
 Db 70 SURPNKOLGSLT-----ALKETDQMSCEEHGEQPHLCDEGQJLICWRSERAPQ 120

Qy 120 HQHQVHTGIDDAELORELKDQLQALQDSREHTEALQQLKQLAETKSTSKSRTTIG 179
 Db 121 HKGHHTALVEDVQGYKERQBAVTKQKQLEDRCTEQKLSTAMRITKWKVQIQPKIR 180

Qy 180 EAERLHLRLLRERQKMLBEADTARTL-----DIEQKVORYSOOLRKYDQGAQILQBLAETRH 228
 Db 181 SDFKNLQFLHBEERKSYLWRLEKEQOTLSLRLDEAGLGLKSNELKSHILELEBQCGS 240

Qy 229 AQILQERLAETDRHTFLAGVSLSLRKLKGITHETLTYDEPTSKYTKTGPLOYTWKSLFQ 286

Db 241 AQKLQVNTD-----LRSWAVKLETSEASLSEHTMCMVSKYFDVKKMLRS 289

RESULT 12
US-10-042-211A-97
| Sequence 97, Application US/10042211A
| Publication No. US2003017071A1
| GENERAL INFORMATION:
| APPLICANT: MATSUDA, Akio et al.
| TITLE OF INVENTION: NEKB Activating Gene
| FILE REFERENCE: 1264-0192P
| CURRENT APPLICATION NUMBER: US/10/042.211A
| CURRENT FILING DATE: 2002-01-11
| PRIOR APPLICATION NUMBER: JP 2000-402288
| PRIOR FILING DATE: 2000-12-18
| PRIOR APPLICATION NUMBER: JP 2001-088912
| PRIOR FILING DATE: 2001-03-26
| PRIOR APPLICATION NUMBER: JP 2001-254018
| PRIOR FILING DATE: 2001-08-24
| PRIOR APPLICATION NUMBER: US 60/258,315
| PRIOR FILING DATE: 2000-12-18
| PRIOR APPLICATION NUMBER: US 60/278,640
| PRIOR FILING DATE: 2001-03-16
| PRIOR APPLICATION NUMBER: US 60/314,385
| PRIOR FILING DATE: 2001-08-14
| NUMBER OF SEQ ID NCS: 182
| SOFTWARE: PatentIn Ver. 2.0
| SEQ ID NO: 97
| LENGTH: 465
| TYPE: PRT
| ORGANISM: Homo sapiens
| US-10-042-211A-97

Query Match 19.6%; Score 492; DB 14; Length 465;
Best Local Similarity 29.3%; Pred. No. 1.2e-12; Mismatches 80; Indels 44; Gaps 11; Matches 137; Conservative 79; Mismatches 20; Indels 44; Gaps 11;

Qy 5 LKDEBLCSICLSQLYDPPVSLGCBEHYFCRCITEHWRQEAQGARD---CPECRTFAEP 60
Db 10 MMEBATCSICLSQLMNPVINCCHSYCHLICIDPFKNPSQKQLRQETFCPCPQRAFPMD 69
Qy 61 ALAPSLKLANIYERYSSFPFLDAILNARRAARPQAH-DKVLFCFLCDRAJLCFFCDEPAL 119
Db 70 SLRENKOLGLSLIE-----ALKETQEMSCBEHQFLFCEDEQCLICWRCRERAPQ 120
Db 70 SURPNQKQSLIE-----ALKETDQNSCBEIGEQLFLCEDEQGLICWRERAPQ 120
Qy 120 HEHQVTGIDDADELQRLKQOLQALQDSEERHTALQKLAETKSSTKSRLRTIG 179
Db 121 HKCTHTAALVEDCQGYKELQPAVFTKQLBEDRCTQKLSTAMTRTKWQKVRQKIR 180
Qy 180 EAEPRLHRLRERQAMBLEBLADTARLT---DIEQKQVQYSQQLR-----KVQEG 228
Db 181 SDFKNLQCLHBEKSYLWRLBEEQTLQSLRQYDAGLGLSNELKSHILELKRCQGS 240
Qy 229 AQFLQERIAETDQHTEFLAGVASLUSERLKGKIHETNLTYEDPPTSKYTPQYTIKSLFQ 288
Db 241 AQKLQNTD-----LSPRSHAVKLTSEAVSLEHTMCTVSKYFDVKMILRS 289
Qy 289 DIHFPVPAALTDEGTAHORLILSDDCTVAYGNLHPQLQD-SPKRFDVEVSVLGEAFS 347
Qy 348 SGVHYWEVVAEKTOWVGLAHEAASRKGS1010PSRGFYC1VMDGNQYSACTEPWTRL 407
Db 349 DIHFPVPAALTDEGTAHORLILSDDCTVAYGNLHPQLQD-SPKRFDVEVSVLGEAFS 347
Qy 349 DIHFPVPAALTDEGTAHORLILSDDCTVAYGNLHPQLQD-SPKRFDVEVSVLGEAFS 347
Db 349 DIHFPVPAALTDEGTAHORLILSDDCTVAYGNLHPQLQD-SPKRFDVEVSVLGEAFS 347
Qy 349 DIHFPVPAALTDEGTAHORLILSDDCTVAYGNLHPQLQD-SPKRFDVEVSVLGEAFS 347
Db 349 DIHFPVPAALTDEGTAHORLILSDDCTVAYGNLHPQLQD-SPKRFDVEVSVLGEAFS 347
Qy 408 NVRDKLXGVFELDQGLLIFYNADDMSWLYTF-REKFPGKLCSYF 453
Db 408 NVRDKLXGVFELDQGLLIFYNADDMSWLYTF-REKFPGKLCSYF 453
Qy 408 NVRDKLXGVFELDQGLLIFYNADDMSWLYTF-REKFPGKLCSYF 453
Db 408 NVRDKLXGVFELDQGLLIFYNADDMSWLYTF-REKFPGKLCSYF 453
Qy 408 NVRDKLXGVFELDQGLLIFYNADDMSWLYTF-REKFPGKLCSYF 453
Db 408 NVRDKLXGVFELDQGLLIFYNADDMSWLYTF-REKFPGKLCSYF 453

RESULT 14
 US-10-042-211A-99
 Sequence 99, Application US/10042211A
 Publication No. US201030170719A1

GENERAL INFORMATION
 APPLICANT: MATSUDA, Akio et al.
 TITLE OF INVENTION: NPF Activating Gene

FILE REFERENCE: 1254-0192P
 CURRENT APPLICATION NUMBER: US/10/042,211A
 CURRENT FILING DATE: 2002-01-11

PRIOR APPLICATION NUMBER: JP 2000-402488
 PRIOR FILING DATE: 2000-12-28

PRIOR APPLICATION NUMBER: JP 2001-088912
 PRIOR FILING DATE: 2001-03-26

PRIOR APPLICATION NUMBER: JP 2001-2544018
 PRIOR FILING DATE: 2001-08-14

PRIOR APPLICATION NUMBER: US 60/258,315
 PRIOR FILING DATE: 2000-12-28

PRIOR APPLICATION NUMBER: US 60/278,640
 PRIOR FILING DATE: 2001-03-26

PRIOR APPLICATION NUMBER: US 60/314,385
 PRIOR FILING DATE: 2001-08-24

NUMBER OF SEQ ID NOS: 182
 SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO: 99
 LENGTH: 465

TYPE: PRT
 ORGANISM: Homo sapiens

US-10-042-211A-99

Query Match 19.5% Score: 489; DB 14; Length: 465;

Best Local Similarity 29.3% Pred. No. 2.1e-12; Gaps 11;
 Matches 137, Conservative 79; Mismatches 207; Indels 44;

Query 5 LDDELLCSCLSLSYQDPVSLGCBHYFCRCLTEHWEEQEAQGARD---CPECRRPFAEP 60
 DB 10 MMPEATCSCLSLNTNPISINCCHSYCUCITDEFKNSQKLRQETFCPCQCRAPFHM 69

QY 61 ALAPSLKLANTIVYSSPFDAILNARAAARPQOH-DKVKLFCLTDRALLCFFCDPBL 119
 DB 70 SLRPNKQQLSLIE-----ALKETQEMSEBEGQFHLPCEBGGQICWRCRAPQ 120

QY 120 HEHQVGTGDDAFLDELQKDLQALQDSERBTEALOLQKROLAFTKSSTSLSKSLRTTIG 179
 DB 121 HKGGTTALVBDVCGSYKBLQKAVTKLQKOLQEDCTEQQLSTAMRITKWKVQIQQKIR 180

QY 180 EAERLHLRLRERQKAMLEELADTARTL---DIEQKQVRSQQLR-----KVQEG 228
 DB 181 SDFXNLOCFLHPEERKSYWRLCEQQOQLSLRUDYEAIGLNSLEELBECQGS 240

QY 229 AQILOERLAETDRHTFLAGVASL SERLKKIHEHTNLTYEDFPTSKYTGPIQYTIWLSLQ 288
 DB 241 AQKLQNTNDT-----LRSWAVKLTSEAVSLELMTCNYSKLYEDVKMLRS 289

QY 289 DIHPVPAATLDPTAHLRLLSDRQVTRG---YTQENODISSRRTAFTPML 407
 DB 344 SGRRFEVVDGEGTGWDLGCMENVQRTGKMQEPQSGWTRLCKKKGYVALTSPTSL 403

QY 290 -HQV---SVTLDPTAHLRLLSDRQVTRG---YTQENODISSRRTAFTPML 433

QY 348 SGVHYWEVYAAKTONWGLAHEAASRKCSIQIOPSRGFYTMHDGNOYSACTEPMTRL 407

DB 344 SGRRFEVVDGEGTGWDLGCMENVQRTGKMQEPQSGWTRLCKKKGYVALTSPTSL 403

QY 408 NVRDXLKDVKYGVFLDYDQGILIFYNAADDMSWLYTF-REKPGKLCSYF 453
 DB 404 HLHEQPLVGFIDYEAQVSYFNTGNTCHIFTPKASFSDTLDRPYF 450

RESULT 15
 US-10-093-463-72
 Sequence 72, Application US/10093463
 Publication No. US201030208039A1
 GENERAL INFORMATION:
 APPLICANT: Padigaru, Muralidhara
 SEQ ID NO: 72
 APPLICANT: Shenoy, Suresh
 APPLICANT: Kekuda, Ramesh
 APPLICANT: Gusev, Vladimir
 APPLICANT: Pochart, Pascal
 APPLICANT: Zhong, Mei
 APPLICANT: Rasetti, Luca
 APPLICANT: Marez, Peter
 APPLICANT: Smithson, Gienna
 APPLICANT: Guo, Xiaojia
 APPLICANT: Gerlach, Valerie
 APPLICANT: Casman, Stacie
 APPLICANT: Boldog, Ferenc
 APPLICANT: Li, Li
 APPLICANT: Zerhusen, Bryan
 APPLICANT: Tcherney, Velizar
 APPLICANT: Gangoli, Esha
 APPLICANT: Vermet, Corine
 APPLICANT: Pena, Carol
 APPLICANT: Burgess, Catherine
 APPLICANT: Liu, Xiohong
 APPLICANT: Spyrek, Kimberly
 APPLICANT: Gottman, Linda
 APPLICANT: Spaderna, Steven
 APPLICANT: Voss, Edward
 APPLICANT: Malyankar, Uriel
 APPLICANT: Anderson, David
 APPLICANT: Parturajan, Meera
 APPLICANT: Miller, Charles S
 APPLICANT: Taudier, Raymond J. JR.
 TITLE OF INVENTION: No. US20030208039A1 Antibodies that Bind to Antigenic Polypept
 TITLE OF INVENTION: Encoding The Antigens, and Methods of Use.
 FILE REFERENCE: 114-02-290A (Cira 590AT)
 CURRENT APPLICATION NUMBER: US/10/093,463
 CURRENT FILING DATE: 2002-06-24
 PRIOR APPLICATION NUMBER: 60/283,675
 PRIOR FILING DATE: 2001-04-14
 PRIOR APPLICATION NUMBER: 60/338,052
 PRIOR FILING DATE: 2001-12-03
 PRIOR APPLICATION NUMBER: 60/274,281
 PRIOR FILING DATE: 2001-04-08
 PRIOR APPLICATION NUMBER: 60/274,101
 PRIOR FILING DATE: 2001-03-08
 PRIOR APPLICATION NUMBER: 60/325,681
 PRIOR FILING DATE: 2001-09-27
 PRIOR APPLICATION NUMBER: 60/304,354
 PRIOR FILING DATE: 2001-07-10
 PRIOR APPLICATION NUMBER: 60/279,995
 PRIOR FILING DATE: 2001-03-30
 PRIOR APPLICATION NUMBER: 60/294,889
 PRIOR FILING DATE: 2001-07-31
 PRIOR APPLICATION NUMBER: 60/287,424
 PRIOR FILING DATE: 2001-04-30
 PRIOR APPLICATION NUMBER: 60/289,027
 PRIOR FILING DATE: 2001-06-18
 PRIOR APPLICATION NUMBER: 60/309,198
 PRIOR FILING DATE: 2001-07-31
 PRIOR APPLICATION NUMBER: 60/281,194
 PRIOR FILING DATE: 2001-04-04
 PRIOR APPLICATION NUMBER: 60/274,194
 PRIOR FILING DATE: 2001-06-08
 PRIOR APPLICATION NUMBER: 60/274,849
 PRIOR FILING DATE: 2001-03-09
 PRIOR APPLICATION NUMBER: 60/330,380
 PRIOR FILING DATE: 2001-10-18
 NUMBER OF SEQ ID NOS: 370
 SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO: 72

Qy	1	MACSLKDELICSLUSIYQDPVSLGCEHYFCCRRCITEHVV-----ROEAGQARDCPEC	53
Qy	2	RTFAEPALAPSLKLANTIVERYSSFFDAILNARRAARPQCA-HDKVKFLCLTDRAALLCP	54
Db	3487	LARKQEEATATGKQH-----GLOQDLCOEHHEFLKLFCQKQDOSPICV	3600
Qy	3	FCDEPALMLHEOHQVTGDDAAPPBELQRLPKDQLQALQDSERERTEALQLLKQ-LAETKSST	171
Db	3601	VCRESRERHLJRHFLPAEEAVQGYKLREQKAMBLEADTARTLTD EQKV-----ORYSQOL---	222
Qy	4	KSLRTTIGAEFLERHLRREQKAMBLEADTARTLTD EQKV-----ORYSQOL---	172
Db	3660	KERREIVLEPEKONLYLIVBEEQRLLQALTEEEETASRLRESVACLDRQGHSLBLILQQ	3719
Qy	5	RKVQEGAOQILQERFLAETDRHTFLAGVASLUSERLKGKTHETNLTYEDFPTSKYTGPIQ	279
Db	3720	LEERSTQGPLOMLQDNEKEPLSRAALLVVL-----IHGMNLV-EFPVVSLSPLSY	3767
Qy	6	LFDQDIPHVPVAALTLDPGTAHQLLSDCT-----IVAYGNLHQ	325
Db	3768	LIAKTRHTQLGPPTPFBCTPLPISPPPPSTDVV-----PDATASAYPMLLYERQR	3825
Qy	7	PLQDSPK-----FDFDVEVSVLGSEAFSSCVHTEV-----VVAEKTQWVIGLAHEASRK	375
Db	3826	YLGSSSDESGFOSKDKRFVAYPCAVGQTAFSSGRHWEVGNNTGDAJALWALGVCRDNSRSK	3885
Qy	8	GSIQIOPSRGFCYIWNHDGNQXSACTEPWTNLNRKLDKVGFLDQGHLIFTYNADDM	435
Db	3886	DRVPKPENGPWVWQSKGKTQKYLSTSALTPVMLMBPFSHNGIFLDEAGEVSFYSVSDG	3945
Qy	9	SWLYTFR-EKPGKLG-SYFSPG	456

Search completed: April 13, 2004, 10:49:57

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OM protein - protein search, using sw model

Run on: April 13, 2004, 10:39:16 ; Search time 23 Seconds
 (without alignments)

Run: 1066.189 Million cell updates/sec

Title: US-09-927-091-1

Perfect score: 2504

Sequence: 1 MACSLKDBLLCSICLISYQD.....GOSHANGKAVQPLRINTVRI 475

Scoring table: BLOSUM62

Gapopen 10.0 , Gapext 0.5

Searched: 38944 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
 Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
 Maximum Match 100%
 Listing First 45 summaries

Database : Issued_Patents_AA:
 1: /ogn2_6/ptodata/2/iaa/5A_COMBO.pep:
 2: /ogn2_6/ptodata/2/iaa/5B_COMBO.pep:
 3: /ogn2_6/ptodata/2/iaa/6A_COMBO.pep:
 4: /ogn2_6/ptodata/2/iaa/6B_COMBO.pep:
 5: /ogn2_6/ptodata/2/iaa/PC70_COMBO.pep:
 6: /ogn2_6/ptodata/2/iaa/backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	546.5	21.8	487	2 US-09-724-394A-7	Sequence 7, Appli
2	486	19.4	485	2 US-09-724-394A-8	Sequence 8, Appli
3	427.5	17.1	781	4 US-09-486-147-3	Sequence 3, Appli
4	421	16.8	179	4 US-09-486-147-38	Sequence 38, Appli
5	396	15.8	178	4 US-09-486-147-37	Sequence 37, Appli
6	364.5	14.6	413	4 US-09-663-600A-198	Sequence 198, Appli
7	348	13.9	183	4 US-09-486-147-36	Sequence 36, Appli
8	339	13.5	584	4 US-09-910-174B-16	Sequence 16, Appli
9	339	13.5	584	4 US-09-620-461-16	Sequence 16, Appli
10	335.5	13.4	184	4 US-09-486-147-35	Sequence 35, Appli
11	329	13.1	513	4 US-09-910-174B-18	Sequence 18, Appli
12	329	13.1	513	4 US-09-620-461-18	Sequence 18, Appli
13	321	12.8	610	2 US-09-724-394A-5	Sequence 5, Appli
14	316.5	12.6	527	4 US-09-910-174B-10	Sequence 10, Appli
15	316.5	12.6	527	4 US-09-620-461-10	Sequence 10, Appli
16	315.5	12.6	529	4 US-09-910-174B-13	Sequence 13, Appli
17	315.5	12.6	529	4 US-09-620-461-13	Sequence 13, Appli
18	312.5	12.5	181	4 US-09-486-147-5	Sequence 5, Appli
19	311.5	12.4	174	4 US-09-486-147-41	Sequence 41, Appli
20	307.5	12.3	523	4 US-09-910-174B-11	Sequence 11, Appli
21	307.5	12.3	523	4 US-09-620-461-11	Sequence 11, Appli
22	305.5	12.2	540	2 US-09-724-394A-4	Sequence 4, Appli
23	303	12.1	185	4 US-09-486-147-39	Sequence 39, Appli
24	299	11.9	581	2 US-08-724-394A-2	Sequence 2, Appli
25	295	11.8	581	2 US-08-724-394A-3	Sequence 3, Appli
26	293	11.7	526	4 US-09-910-174B-9	Sequence 9, Appli
27	293	11.7	526	4 US-09-620-461-9	Sequence 9, Appli

RESULT 1
 US-08-724-394A-7
 Sequence 7, Application US/08724394A
 ; GENERAL INFORMATION:
 ; PATENT NO. 5872337
 ; APPLICANT: Feder, John N.
 ; INVENTOR: Kronmal, Gregory S.
 ; APPLICANT: Lauer, Peter M.
 ; APPLICANT: Ruddy, David A.
 ; APPLICANT: Thomas, Winston
 ; APPLICANT: Touchihashi, Zenta
 ; APPLICANT: Wolff, Roger K.
 ; TITLE OF INVENTION: Megabase Transcript Map: No. 5872237el
 ; TITLE OF INVENTION: Sequences and Antibodies Thereto
 ; NUMBER OF SEQUENCES: 31
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: TOWNSEND and TOWNSEND and CREW LLP
 ; STREET: Two Embarcadero Center, 8th Floor
 ; CITY: San Francisco
 ; STATE: CA
 ; COUNTRY: USA
 ; ZIP: 94111-3834
 ; COMPUTER READABLE FORM:
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PATENT RELEASE #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/724-394A
 ; FILING DATE: 01-OCT-1996
 ; CLASSIFICATION: 536
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Pitts, Renée A.
 ; REGISTRATION NUMBER: 35,136
 ; REFERENCE/DOCKET NUMBER: 017957-000100
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 415-576-0200
 ; TELEFAX: 415-576-0300
 ; INFORMATION FOR SEQ ID NO: 7:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 487 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: not relevant
 ; TOPOLOGY: not relevant
 ; MOLECULE TYPE: peptide
 ; FEATURE:
 ; NAME: Region
 ; KEY: Region
 ; LOCATION: 1..487
 ; OTHER INFORMATION: /note= "52 KD Ro"
 ; US-08-724-394A-7

ALIGNMENTS

ATTORNEY/AGENT INFORMATION:

NAME: Firtz, Rene A.
REGISTRATION NUMBER: 35,136
REFERENCE/DOCKET NUMBER: 017957-000100
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-576-0300
TELEFAX: 415-576-0300
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 485 amino acids
TYPE: amino acid
SPANNEDNESS: not relevant
TOPOLOGY: not relevant
MOLECULE TYPE: peptide
FEATURE:
NAME/KEY: Region
LOCATION: 1..485
OTHER INFORMATION: /note= "Roret"
US-08-724-394A-8

Query Match 21.8%; Score 546.5; DB 2; Length 487;
Best Local Similarity 30.4%; Prod. No. 4..7e-41; Mismatches 92; Indels 49; Gaps 16;
Matches 150; Conservative 92;

Qy 7 DELICSIUSIYQDPVSQGCEHYFCRRRTEHVRQEAQARD-----CPECRTF 57
Db 12 EEVTCPICLDPFVBPVSIECGHSEFCQEIS----QVGKGGXXXXXVCPVCRQRF 66
Qy 58 AEPALAPSIKRLANIVRVERYSFPDAILNARRAARPQAH-DKVKLFCLTDRAALLCFCDE 116
Db 67 LLKNLPRPQLANVNNIKEISQA--REGTGERCAWGERLHLFCEKDGAICWVCAQ 124
Qy 117 PAFHQHOGVTGIDDAFDELORELKDQLOALQDSEREHTEALQI--LKRQLAETKSSTS 173
Db 125 SRKHDHANVPLEAAQYQEKIQLVALGELR-RKQELAEKLEVEIAK--ADWKKTET 181
Qy 174 LRTTIGEAFERLHLRREPKAMLEELFADTARTLTDIEQKVYRYSQQLRKVQEAGQILO 233
Db 1B2 QKSIHAEPVQKNFLVVEBQRQIQLDEBQRLIGEAKRLAQ-----SQLQ 234

Qy 234 ERLAETDRHTFLGAVASLSELRL-----KGKIHETNLYTDEDPTSKYTGQIYTIWKL 286
Db 235 ELISPLDRQHSSAELLOEVTIVLERBESWNKDLDTSPERSVCHV-PAXXXGIKRM 293
Qy 287 FQD--IHPYPAALTLDPGAHQRLILSDDCITIAYGNLHPQPLQDSKRFDEVSYVLSGE 344
Db 294 LRTCAVH-----ITLDPDANPMLLSERROVRLGDQ-OQLPGNBERFDSYPMYLGAQ 347
Qy 345 AFSSSVHVVVVAEKTQVIGLAHEAASRKGQIQLQISRGFCTIVNHDGNOYACTEPW 404
Db 348 HFHSKXHTEVDUTGKEAWDLGICRDSVTRKGHFLSSKSGFNTIWLNKQYEAGTY PQ 407
Qy 405 TRLNVRDLDKVGFLDQGQLLIYFN-ADDMSWLYTRE-KFPGKLCSYFSPGOSHANG 462
Db 408 TPLHIVQPPQVGFLDTEAGMUSFINITDHSGLIISFSSECAFTGPIRPFSPG-FNDDG 466
Qy 463 KNYQPLRINTVRI 475
Db 467 KNTAPLTLCPBLNI 479

RESULT 2
US-08-724-394A-8
; Sequence 8, Application US/08724394A
; Patent No. 5,872,277
; GENERAL INFORMATION:
; APPLICANT: Feder, John N.
; APPLICANT: Kromal, Gregory S.
; APPLICANT: Lauer, Peter M.
; APPLICANT: Ruddy, David A.
; APPLICANT: Thomas, Winston.
; APPLICANT: Tsuchihashi, Tenta
; APPLICANT: Wolf, Roger K.
; TITLE OF INVENTION: Megabase Transcript Map: No. 5872227e1
; NUMBER OF INVENTION: 31
; NUMBER OF SEQUENCES: 31
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: TOWNSEND and TOWNSEND and CREW LLP
; STREET: Two Embarcadero Center, 8th Floor
; CITY: San Francisco
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/724,394A
; FILING DATE: 01-OCT-1996
; CLASSIFICATION: 536

RESULT 3
US-09-486-147-3
; Sequence 3, Application US/09486147
; Patent No. 6,627,145
; GENERAL INFORMATION:
; APPLICANT: The Government of the United States of America, as
; represented by the Secretary, Department of Health and Human
; SERVICES:
; APPLICANT: Daniel L. Kastner
; APPLICANT: Ivona Aksentjevich
; APPLICANT: Michael Centoia
; APPLICANT: Zuwong Deng
; APPLICANT: Raman Sood
; APPLICANT: Francis S. Collins
; APPLICANT: Trevor Blake
; APPLICANT: P. Paul Liu

PRIOR FILING DATE: 1998-08-20
 PRIOR APPLICATION NUMBER: 60/056,217
 PRIOR FILING DATE: 1997-08-21
 NUMBER OF SEQ ID NOS: 45
 SOFTWARE: Fast-SEQ for Windows Version 4.0
 SEQ ID NO: 37
 LENGTH: 178
 TYPE: PRT
 ORGANISM: Xenopus laevis
 US-09-486-147-37

Query Match Similarity 15.8%; Score 396; DB 4; Length 178;
 Best Local Similarity 46.2%; Pred. No. 1.7e-23; Gaps 2;
 Matches 28; Conservative 28; Mismatches 63; Indels 2; Gaps 2;

QY 297 LTLDPGTIAHQRLILSDCTTIVAGNLHPOQLQDPSKREPDVEVSVLSEAFSSGVHWEVV 356
 DB 3 MLLDPTSAHPNLHSDGTLTSVRYGE-NKLSLDPNPAASQCIVLGSQGDSGRHWEV 61

QY 357 VAEKTWVIGLAHEAASRGKSGTIOQPSRGFYCIVMDNGQNSACTBWRTRLNVRDLDKV 416
 DB 62 VGDXTAWDGMASSSNKGKIKLNPQGYAWLNRNGNAYALESSKSLSLSSHPRKI 121

QY 417 GYVFDYDQGLIYPNADDMSLWYTFREKPGKLCSYFSGOSHANGKNGVQLR 469
 DB 122 GYVYDYEQQISFTNADDMTITYTFNATEKLYPLSP-FDUDSGKNDPLR 173

QY 60 PALAPSLKLANTIVYSSFPDAILNARRAARPCQAH-DKVKLFCFLTRALLCFFCDBPA 118
 DB 66 EHLQANQHLANTIVLKEVKLSPDNGKRLD-CDHIGEKLILFCEDRKVIVCLBERSQ 123

QY 119 LHEQHQTGIDDAFDELREKLQDQALQDSRENTBELLKROLAETKSSTK---SL 174
 DB 124 EHRSHHTVITE/FRECOERLQAVLKRKEEE---AEKEDADIEEKTWSKQYQTE 179

QY 175 RTTIGEAFFRLHNLREHQKAMBLEEADTARTLTDIBQKVQYSSQOLRKYOE-----227
 DB 180 QRRIQTEPFOQLRSILNNBEEQREIQLRLEBEKKLDFKAEBADLVLQKQKOLVTELLISDVEC 239

QY 228 ---GAQIQLQERIABTDBRHTFLAGAVASLE--PLKGKIHETNITYEDFPTSKYTGQY 280
 DB 240 RSONSTMELQD-----MSGIMKMESEIRLK---KPRMVSCLKLTKTVPHADPSR 285

QY 281 TIWKLQFDQIHPVP---AALTLDPGTAHQRLILSDCTTIVAGNLHPOQLQDPSKRFDVE 337
 DB 286 ML---QMFRRELTTAVCQYWDVTSVNLNLVNSLNUEDOQVSYSPWMPQCYN----335

QY 338 VSVLQSEAFTSSGVHWEVVVAEKTQWVIG-----LAHEAARKG-SIQIQPSR 384
 DB 336 YGVLSQYQFSSSGKHWYEVDSKCTAWILGVCTRYSRMVKYVTRCANRQNLTYKRPFL 395

QY 385 GFYCIVMHDGQYSA 399
 DB 396 GYVWIGLQNKCKYGA 410

RESULT 6

RESULT 7

US-09-486-147-36

Sequence 36, Application US/09486147

Patent No. 662775

GENERAL INFORMATION:

APPLICANT: The Government of the United States of America, as

REPRESENTED BY THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN

SERVICES

APPLICANT: Services

APPLICANT: Trevor Blake

APPLICANT: Daniel L. Kasner

APPLICANT: Ivona Aksentielevich

APPLICANT: Michael Centola

APPLICANT: Zuoming Deng

APPLICANT: Raman Sood

APPLICANT: Francis S. Collins

APPLICANT: Robert I. Richards

APPLICANT: Darren L. Riche

APPLICANT: No. 662775

APPLICANT: Motsaehai Pras

APPLICANT: P. Paul Liu

APPLICANT: Deborah Gumucio

APPLICANT: Robert I. Richards

APPLICANT: Trevor Blake

APPLICANT: Ivona Aksentielevich

APPLICANT: Michael Centola

APPLICANT: Zuoming Deng

APPLICANT: Raman Sood

APPLICANT: Francis S. Collins

APPLICANT: Trevor Blake

APPLICANT: Daniel L. Kasner

APPLICANT: Ivona Aksentielevich

APPLICANT: Michael Centola

APPLICANT: Zuoming Deng

APPLICANT: Raman Sood

APPLICANT: Francis S. Collins

APPLICANT: Trevor Blake

APPLICANT: Ivona Aksentielevich

APPLICANT: Michael Centola

APPLICANT: Zuoming Deng

APPLICANT: Raman Sood

APPLICANT: Francis S. Collins

APPLICANT: Trevor Blake

APPLICANT: Ivona Aksentielevich

APPLICANT: Michael Centola

APPLICANT: Zuoming Deng

APPLICANT: Raman Sood

APPLICANT: Francis S. Collins

APPLICANT: Trevor Blake

APPLICANT: Ivona Aksentielevich

APPLICANT: Michael Centola

APPLICANT: Zuoming Deng

APPLICANT: Raman Sood

APPLICANT: Francis S. Collins

APPLICANT: Trevor Blake

APPLICANT: Ivona Aksentielevich

APPLICANT: Michael Centola

APPLICANT: Zuoming Deng

APPLICANT: Raman Sood

APPLICANT: Francis S. Collins

APPLICANT: Trevor Blake

APPLICANT: Ivona Aksentielevich

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APPLICANT: Trevor Blake

APPLICANT: Ivona Aksentielevich

APPLICANT: Michael Centola

APPLICANT: Zuoming Deng

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RESULT 8
US-09-910-174B-16
; Sequence 16, Application US/09910174B
; Patent No. 6630575
; GENERAL INFORMATION:
; APPLICANT: Coyle, Anthony J.
; APPLICANT: Fraser, Christopher C.
; APPLICANT: Manning, Stephen
; TITLE OF INVENTION: B7-H2 Molecules No. 6630575el Members of the B7
; TITLE OF INVENTION: Family and Uses Thereof
; FILE REFERENCE: 35800/2316824
; CURRENT APPLICATION NUMBER: US/09/910,174B
; CURRENT FILING DATE: 2001-07-20
; PRIOR APPLICATION NUMBER: US 09/620,461
; PRIOR FILING DATE: 2000-07-20
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16
; LENGTH: 584
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-910-174B-16

Query Match 13 5%; Score 339; DB 4; Length 584;
Best Local Similarity 37.1%; Pred. No. 2.8e-23;
Matches 83; Conservative 41; Mismatches 82; Indels 18; Gaps 6
Match 226 QEGAGQILQERLAETRHTFLAGVA-----SISERLKGKIHBTNLTYEDFTTSKTTGPIQ 279
Match 273 QQQKQKIALSHTETTEREMKENGAYATEQQESLRLREQLQEEIKWKRKICX---MARGEKS LA 328
Match 280 YTIWKL-SLFDODIHPVAALTLIDPGPAHQLLISDDCTIVAGNLHHPQLQDSPRDPVEV 338
Match 329 YHENXKMLFK----PADVILDPTDANAILLVEDQRSVQRAE-ERDLPNPEREWRY 382
Match 339 SVLGEAFSSGVHYWVWVVAERKTQVYVGLAHEAASR-KGSIQIQPSRGFVCLVMMHDGNYQ 397
Match 383 CVLGJENFTSGRHYVEVGRDEKWHIGVCSKVNKKKGWVMTPENGYWTMGLTDGNYK 442
Match 443 RALTBERTNLKLPEPRKVGFILDYEIGEISYNATDGSHTF 486

RESULT 9
US-09-620-461-16
; Sequence 16, Application US/09620461
; Patent No. 6635750
; GENERAL INFORMATION:
; APPLICANT: Coyle, Anthony J.
; APPLICANT: Fraser, Christopher C.
; APPLICANT: Manning, Stephen
; TITLE OF INVENTION: B7-H2 Molecules No. 6635750el Members of the B7
; TITLE OF INVENTION: Family and Uses Thereof
; FILE REFERENCE: 5800-149
; CURRENT APPLICATION NUMBER: US/09/620,461
; CURRENT FILING DATE: 2000-07-20
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: FastSeq for Windows Version 3.0

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LENGTH: 610 amino acids
 TYPE: amino acid
 STRANDEDNESS: not relevant
 TOPOLOGY: not relevant
 MOLECULE TYPE: peptide
 FEATURE:
 NAME/KEY: Region
 LOCATION: 1..610
 OTHER INFORMATION: /note= "BTP3"
 US-08-724-374A-5

Query Match 12.8%; Score 321; DB 2; Length 610;
 Best Local Similarity 34.7%; Pred. No. 1..5e-21;
 Matches 82; Conservative 45; Mismatches 87; Indels 22; Gaps 8;

Qy 218 YSOQLRKYQEGAQIQLQER----LARDHR-TPLAGVSLISERLKGKIHETNLTYEDFP 270
 Db 287 WROQKEKIALSSTERELEMKEMGYAETEQEOTXXXXXXXXXREKQELWKRKICY--- 342

Qy 271 TSKYTGPIQYTIWK-SLEQDTHPVAALTDGTAHORLILSDCTIVAGNLHQP--- 326
 Db 343 MARGEKS1AYHEWMKAFLK----PADVYLDPTDAVAILYSEDQRSVQRAE-ERDXXX 396

Qy 327 LDPSKRFDVVEVSVLGSEAFSSGKHYMEVYVAEKTOWVIGLAHEAASR-KGSIQIOPSRG 385
 Db 397 LPDNPEREERWYCVLGGENFTSGRHTWEVEVDRKEWHIGVCSKAVRKGWVWPTPENG 456

Qy 366 FYCIVMHDINGNOYSACTEFWTRUNVRDKDLYKGVFELDQDGHLIYFNADMSWLYTE 441
 Db 457 YWTMGLTQGKVRALTERTRNKLPEPKYGFIDYETGEFSYNAFDSHRYT 512

RESULT 14
 US-09-910-174B-10
 ; Sequence 10, Application US/09910174B
 ; Patent No. 663575
 ; GENERAL INFORMATION
 ; APPLICANT: Coyle, Anthony J.
 ; APPLICANT: Fraser, Christopher C.
 ; TITLE OF INVENTION: B7-H2 Molecules, No. 6630575e1 Members of the B7
 ; FILE NUMBER: 35000/236924
 ; CURRENT APPLICATION NUMBER: US/09/910,174B
 ; CURRENT FILING DATE: 2001-07-20
 ; PRIOR APPLICATION NUMBER: US 09/620,461
 ; PRIOR FILING DATE: 2000-07-20
 ; NUMBER OF SEQ ID NOS: 32
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO: 10
 ; LENGTH: 527
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-09-910-174B-10

Query Match 12.6%; Score 316.5; DB 4; Length 527;
 Best Local Similarity 33.3%; Pred. No. 3.2e-21;
 Matches 89; Conservative 38; Mismatches 93; Indels 47; Gaps 11;

Qy 222 LRYKQEGAQIQLQERAEIDRHTFLAGVSLISERLKGKIHETNLTYEDFPTSKYGPQYT 281
 Db 269 INKLUCKEKKILSGE-KEFERETRAILEKERVKEEELQVKEK-----LQEE 317

Qy 282 I-WKSLFDQDTHPVAALTDGTAHORLILSDCTIVAGNLHQPQDPSKRF 334
 Db 318 LRWRRTF-LHADV-VVLDPTDTHPDFLSERRS/VRCPFRHGESVP---DNPERF 369

Qy 335 DVEVSVLGSEAFSSGKHYMEVYVAEKTOWVIGLAHEAASRKGS1QIOPSRGFYCIVMHDG 394
 Db 370 DSQPCVLGRESFASGRHWEVEVENVIVWTVGCRDSVERKEVLLIQNGFTLHKG 429

Qy 395 NOVSACTEWTRNLVRDKDLYKGVFELDQGHLIYFNADMSWLYT-----F 441
 Db 430 -QYAVASSSPDRILPKESLCRGVFELDQGDSYFNMRDRSHIYTCPRSAFSVPRPFF 488

Qy 442 R--EKEPGKLUCSYPSQGSHANGKY 465
 Db 489 RLGCDSPFIC---PAITGANGTV 511

Search completed: April 13, 2004, 10:45:10
 Job time : 24 secs

Query Match 12.6%; Score 316.5; DB 4; Length 527;
 Best Local Similarity 33.3%; Pred. No. 3.2e-21;
 Matches 89; Conservative 38; Mismatches 93; Indels 47; Gaps 11;

Qy 222 LRYKQEGAQIQLQERAEIDRHTFLAGVSLISERLKGKIHETNLTYEDFPTSKYGPQYT 281
 Db 269 INKLUCKEKKILSGE-KEFERETRAILEKERVKEEELQVKEK-----LQEE 317

Qy 282 I-WKSLFDQDTHPVAALTDGTAHORLILSDCTIVAGNLHQPQDPSKRF 334
 Db 318 LRWRRTF-LHADV-VVLDPTDTHPDFLSERRS/VRCPFRHGESVP---DNPERF 369

Qy 335 DVEVSVLGSEAFSSGKHYMEVYVAEKTOWVIGLAHEAASRKGS1QIOPSRGFYCIVMHDG 394
 Db 370 DSQPCVLGRESFASGRHWEVEVENVIVWTVGCRDSVERKEVLLIQNGFTLHKG 429

Qy 395 NOVSACTEWTRNLVRDKDLYKGVFELDQGHLIYFNADMSWLYT-----F 441
 Db 430 -QYAVASSSPDRILPKESLCRGVFELDQGDSYFNMRDRSHIYTCPRSAFSVPRPFF 488

Qy 442 R--EKEPGKLUCSYPSQGSHANGKY 465
 Db 489 RLGCDSPFIC---PAITGANGTV 511

Search completed: April 13, 2004, 10:45:10
 Job time : 24 secs

Qy	2341	CTTCCGAGTGTCTCCCTCAGCCCGCCCTGACGGAAAGTCAGGATGCCAGT 2400	Db	3421	CGGGAGGGTGGAGTCACATGAGCTGGCTTCTGCTGGCTTCTATCCCTGCCAG 3480
Db	2341	CTTCCGAGTGTCTCCCTCAGCCCGCCCTGACGGATGCCAGT 2400	Qy	3481	AGGTGGAACTGGAGTGGCTGAGCTGAGCTTAATGTCCTGGCTGAGCT 3540
Qy	2401	AGTTGGAGGCCGAGAACACAGAACACAGAACCTCTTATGCCCCATGGCTAAGACTTACCCC 2460	Db	3481	AGGTGGAACTGGAGTGGCTGAGCTGAGCTTAATGTCCTGGCTGAGCT 3540
Db	2401	AGTTGGAGGCCGAGAACACAGAACACAGAACCTCTTATGCCCCATGGCTAAGACTTACCCC 2460	Qy	3541	TTCCTTCCTAGTCCTGGCCCTAGATTCCTGCACTTGAGCTCTGAGCTTAATGTCCTGGCTGAGCT 3600
Qy	2461	TGACCAAGCTAAGTGTGCAAGTGTGCAAGGTAGT 2520	Db	3541	TTCCTTCCTAGTCCTGGCCCTAGATTCCTGCACTTGAGCTCTGAGCTTAATGTCCTGGCTGAGCT 3600
Db	2461	TGACCAAGCTAAGTGTGCAAGTGTGCAAGGTAGT 2520	Qy	3601	CCAAAGTAGCCGGAAAGACTAACACAGGGGTTCTTAAATGGCTGCCGGCACCCG 3660
Qy	25221	ACCTGGCTCTAGGTTGCTGAGGCAACCTCTCTGGCAACCCCAACCAAGACTAT 2580	Db	3601	CCAAAGTAGCCGGAAAGACTAACACAGGGGTTCTTAAATGGCTGCCGGCACCCG 3660
Db	25221	ACCTGGCTCTAGGTTGCTGAGGCAACCTCTCTGGCAACCCCAACCAAGACTAT 2580	Qy	3661	GGCTTCCCTGGCAACGAACTGTCGCCCTACCCCACCCAACTCCAACTTCAACTACCAAACT 3720
Qy	2581	ATGGTTCCTACTCTCCACGATCTGCTGCACTGAGCTGCTGCAACCCCAACCAAGACTAT 2580	Db	3661	GGCTTCCCTGGCAACGAACTGTCGCCCTACCCCACCCAAACCCCAACCCAACTACCAAACT 3720
Db	2581	ATGGTTCCTACTCTCCACGATCTGCTGCACTGAGCTGCTGCAACCCCAACCAAGACTAT 2580	Qy	3721	GGGCACCCAGAGTATTATTAAATGGTGCCTATTATGGTGTGCTGAGTTATGATCATT 3780
Qy	2641	CACCTGGTAGTGTGAGTCACACATTATGCACTGCAACCCACCTCTGCCACAGGCC 2700	Db	3721	GGGCACCCAGAGTATTATTAAATGGTGCCTATTATGGTGTGCTGAGTTATGATCATT 3780
Db	2641	CACCTGGTAGTGTGAGTCACACATTATGCACTGCAACCCACCTCTGCCACAGGCC 2700	Qy	3781	TGTATAATTAAAGTTACAGTGTCAAAAAAA 3826
Qy	2701	GAGGAGGGTGGTTAGGTTACCCAGCTATGCAAGGCCATTAACCTTAANAGCACT 2760	Db	3781	TGTATAATTAAAGTTACAGTGTCAAAAAAA 3826
Db	2701	GAGGAGCAAGGTGAGGTTACCCAAAGCTATGCAAGGCCATTAACCTTAANAGCACT 2760	Qy	2761	CGGGACAGGCTCCCTGATGATGGAGTGGCTGAGCTGAGCTGCCAGCA 2820
Db	2761	CGGGACAGGCTCCCTGATGATGGAGTGGCTGAGCTGAGCTGCCAGCA 2820	Qy	2821	ACCTCTCTAGCCAGGCCCTGTGACTCTGTAGGGTCAAGAGCTG 2880
Db	2821	ACCTCTCTAGCCAGGCCCTGTGACTCTGTAGGGTCAAGAGCTG 2880	Qy	2881	TGTAAATTAGGACCCAGACTGGGGGGCTGCTAGACCCCTTGTGAGCTGGC 2940
Db	2881	TGTAAATTAGGACCCAGACTGGGGGGCTGCTAGACCCCTTGTGAGCTGGC 2940	Qy	2941	ATCTATCTCAGTTAGGATCTCTGCAAGAACAGCCACTTGTAGCTGGTTAAATTA 30000
Qy	2941	ATCTATCTCAGTTAGGATCTCTGCAAGAACAGCCACTTGTAGCTGGTTAAATTA 30000	Db	2941	ATCTATCTCAGTTAGGACCTGTGCAAAACAGCCACTTGTAGCTGGTTAAATTA 30000
Qy	3001	GACAAGGTTTACTCTGGCCCTGCAATCTGAGGAAACTCTGGCTGAGAAG 3060	Qy	3001	GACAAGGTTTACTCTGGCCCTGCAATCTGAGGAAACTCTGGCTGAGAAG 3060
Db	3001	GACAAGGTTTACTCTGGCCCTGCAATCTGAGGAAACTCTGGCTGAGAAG 3060	Qy	3061	CAGACTCTGCTGATTTCAGAAACTCCAGGCCAGATTCACTGCTGGACCA 3120
Qy	3061	CAGACTCTGCTGATTTCAGAAACTCCAGGCCAGATTCACTGCTGGACCA 3120	Db	3121	GGAAAGCTGCCCTCATCTGCAAGAAAGCCACTATGCCAGAACTGCTGACTGCCAGA 3180
Db	3121	GGAAAGCTGCCCTCATCTGCAAGAAAGCCACTATGCCAGAACTGCTGACTGCCAGA 3180	Qy	3181	GGCTCCCTGCGACGCCATATGATCTCTGGCTGCCCTCTCCCA 3240
Qy	3181	GGCTCCCTGCGACGCCATATGATCTCTGGCTGCCCTCTCCCA 3240	Db	3181	GGCTCCCTGCGACGCCATATGATCTCTGGCTGCCCTCTCCCA 3240
Qy	3241	CPTCACTGAGTCCTGACCTTAATTTACAGAGATCTGGGGAAACTTAAAGTC 3300	Qy	3241	CPTCACTGAGTCCTGACCTTAATTTACAGAGATCTGGGGAAACTTAAAGTC 3300
Db	3241	CPTCACTGAGTCCTGACCTTAATTTACAGAGATCTGGGGAAACTTAAAGTC 3300	Qy	3301	AGATCCAGAACCTGGCTGCAAGGGACTGTGGAAATGTCATTCCCTAGGAAAGTTA 3360
Qy	3301	AGATCCAGAACCTGGCTGCAAGGGACTGTGGAAATGTCATTCCCTAGGAAAGTTA 3360	Db	3301	AGATCCAGAACCTGGCTGCAAGGGACTGTGGAAATGTCATTCCCTAGGAAAGTTA 3360
Qy	3361	GGGTGGGTTGGAGGAGGCCACCTGGTTTCAGCAAGATCCATTGTGAAACT 3420	Qy	3361	GGGTGGGTTGGAGGAGGCCACCTGGTTTCAGCAAGATCCATTGTGAAACT 3420
Db	3361	GGGTGGGTTGGAGGAGGCCACCTGGTTTCAGCAAGATCCATTGTGAAACT 3420	Qy	3421	GGGGAGGGTGGAGTCCACATCTAGGGTTCTGCTGGCTCAGTGGGGGTG 1668

RESULT 2
US-09-927-091-7
Sequence 7, Application US/09927091
; Patent No. US20020119541A1
; GENERAL INFORMATION:
; APPLICANT: KILLIARY, ANN
; APPLICANT: LOTT, STEVE
; APPLICANT: CHANDLER, DAWN
; TITLE OF INVENTION: THE TUMOR SUPPRESSOR CAR-1
; FILE REFERENCE: UTSC-165.US
; CURRENT APPLICATION NUMBER: US/09/927,091
; CURRENT FILING DATE: 2001-08-09
; PRIORITY APPLICATION NUMBER: 60/227,560
; PRIOR FILING DATE: 2000-08-23
; PRIORITY NUMBER: 60/225,033
; PRIORITY FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 23433
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: modified_base
; OTHER INFORMATION: (S071) (23433)
; OTHER INFORMATION: n = A or C or G or T/U
US-09-927-091-7

Query Match 60.7%; Score 23433; DB 9; Length 23433;
Best Local Similarity 98.8%; Pred. No. 0; Mismatches 0; Indels 1; Gaps 1;
Matches 2350; Conservative 0; Mismatches 28;

Qy 1429 GGCCCCCTGGAGTACACCATCTGGAGCTGGCTCTCCAGATCACCAGTGCAAGC 1488
Db 12480 GGTCAACAGCTCTCCACTATCTCTCTCCCTCCACAGTGCAAGC 1253 9
Qy 1489 GCCCCAACCTGGACCCAGGGCAAGGCCACAGGGCTGAGCTGCAC 1548
Db 12540 GCCCCAACCTGGACCCAGGGCAAGGCCACAGGGCTGAGCTGCAC 1259 9

Qy 1549 ATGGGGCTTACGGGAACTTGCAAGCTGGCTCTGGCAAGGGCTGCT 1608
Db 12600 ATGGGGCTTACGGGAACTTGCAAGCTGGCTCTGGCAAGGGCTGCT 1265 9

Qy 1609 GTGGAGGGTGGAGTCCACATCTAGGGTTCTGCTGGCTCAGTGGGGGTG 1668

RESULT	3	Sequence 8, Application US/09927091-8	Application US/09927091
QY		GENERAL INFORMATION:	
Db	23 970	APPLICANT: KILLARY, ANN	Patent No. US0020119541A1
QY	20 899	APPLICANT: LOTT, STEVE	
Db	24 030	APPLICANT: CHANDLER, DAWN	
QY	21 149	TITLE OF INVENTION: THE TUMOR SUPPRESSOR CAR-1	
Db	24 089	FILE REFERENCE: US/SC-651US	
QY		CURRENT APPLICATION NUMBER: US/09/927-091	
Db		CURRENT FILING DATE: 2001-08-09	
QY		PRIOR APPLICATION NUMBER: 60/127,560	
Db		PRIOR FILING DATE: 2000-08-23	
QY		PRIOR APPLICATION NUMBER: 60/125,033	
Db		PRIOR FILING DATE: 2000-08-10	
QY		NUMBER OF SEQ ID NOS: 9	
Db		SOFTWARE: PatentIn Ver. 2.1	
QY		SEQ ID NO: 8	
Db		LENGTH: 3 0676	
QY		TYPE: DNA	
Db		ORGANISM: Human	
QY		FEATURE:	
Db		NAME/KEY: modified base	
QY		LOCATION: (6671)..(30676)	
Db		OTHER INFORMATION: n = A or C or G or T/u	
QY		US-09-927-091-8	
QY		Query Match Score 2308.6; DB 9; Length 30676;	
Db		Best Local Similarity 98.7%; Pred. No. 0; Mismatches 29; Indels 2; Gaps 2; Matches 2346; Conservative	
QY		1429 GGCCTTAACCTCTGGACACCACTCTGGAAGTCCTCGTGTCCAGGACATCCACCACTGCGACGC 1488	
Db		23371 GGTTCACAGCCTCTCCCACTCACTCTCTCCCTCCACACCCACAGTGCAGCC 23430	
QY		1489 GGCCTTAACCTCTGGACACCACTCTGGAAGTCCTCGTGTCCAGGACATCCACCACTGCGACGC 1548	
Db		23431 GGCCTTAACCTCTGGACAGCCCAACGGCCACAGGCTGATCTGTGGAGACTGCACC 23490	
QY		1549 ATTTGGCTTATGGCAACTTGACCAACAGCAGGACTCGGAAATCGCCTGCGAT 1608	
Db		23491 ATTTGGCTTATGGCAACTTGACCAACAGCAGGACTCGGAAATCGCCTGCGAT 23550	
QY		1609 GTGCAAGGTGTCGTTGCTGTTGCTGAGCTTGCGTCCACATCTGCGAGGTG 1668	
Db		23551 GTGCAAGGTGTCGTTGCTGCGTTGCTGAGCTTGCGTCCACATCTGCGAGGTG 23610	
QY		1669 GTGCTGGGGAGAGAACCCAGCTGGTGTGGCTGAGCTGGCGCCAAAG 1728	
Db		23611 GTGCTGGGGAGAGAACCCAGCTGGTGTGGCTGAGCTGGCGCCAA- 23669	
QY		1729 GGCAGCATCCAGTCCACGCCAACCGCCGCTTCACTGATCGATGGC AAC 1788	
Db		23670 GGCAGCATCCAGTCCACGCCAACCGCCGCTTCACTGATCGATGGC AAC 23729	
QY		1849 GTGGGTGTTCTGGACTATGCAAGCTGGCTGAGCTGGCTGAGCTGATG 1908	
Db		23790 GTGGGTGTTCTGGACTATGCAAGCTGGCTGAGCTGGCTGAGCTGATG 23849	
QY		1789 CASTACAGGGCTCTGACGGAGCCCTGAGCTGGCTGAGCTGGCTGAG 1848	
Db		23730 CAGTACAGGGCTCTGACGGAGCCCTGAGCTGGCTGAGCTGGCTGAG 23789	
QY		1909 TCTTGGCTTACACCTTGGCAAGTCCCTGAGCTGGCTGAGCTGGCTGAG 1968	
Db		23850 TCTTGGCTTACACCTTGGCAAGTCCCTGAGCTGGCTGAGCTGGCTGAG 23909	
QY		1969 GGCGAGGGCCAGCCAACTGGCAAGTCCCTGAGCTGGCTGAGCTGGCTGAG 2028	
Db		23901 GGCGAGGGCCAGCCAACTGGCAAGTCCCTGAGCTGGCTGAGCTGGCTGAG 23959	
QY		2029 TAGTCAGGGAGAGGAGCTGGCTGAAATTCCAGGAACCTGGCTGAGCTGGCTGAG 2088	
Db		23 970 TAGTCAGGGAGAGGAGCTGGCTGAAATTCCAGGAACCTGGCTGAGCTGGCTGAG 24 029	
QY		20 899 CCAGGAAGATAGAGAACCTGGACTCCAGTGGAACTCTGAGCCAGT 2148	
Db		24 030 CCAGG -AGATAGAGAACCTGGACTCCAGTGGAACTCTGAGCCAGT 24088	
QY		21 149 TGTGTTACCTCCAGGCTCCAGTGTAAATGGGGTGCATCCCTAACTC 2208	
Db		24 089 TGTGTTACCTCCAGGCTCCAGTGTAAATGGGGTGCATCCCTAACTC 24148	
QY		2209 TCTTCAGGGAGCTGGCTGAGCTGGCTGAGCTGGCTGAGCTGGCTGAG 2268	
Db		24 149 TCTTCAGGGAGCTGGCTGAGCTGGCTGAGCTGGCTGAGCTGGCTGAG 24208	
QY		2269 ATGTGACATGGCCTCTCCAGGGCAACCCCTCATCCCATCTCTGAG 2328	
Db		24 209 ATGTGACATGGCCTCTCCAGGGCAACCCCTCATCCCATCTCTGAG 24 268	
QY		2329 GGCAGGGAGACTACTTCAGTGTCTGGCTGAGCTGGCTGAGCTGGCTGAG 23 88	
Db		24 269 GGCAGGGAGACTACTTCAGTGTCTGGCTGAGCTGGCTGAGCTGGCTGAG 24 328	
QY		2389 AGCATGGCTGAGCTGGCTGAGCTGGCTGAGCTGGCTGAGCTGGCTGAG 2448	
Db		24 329 AGCATGGCTGAGCTGGCTGAGCTGGCTGAGCTGGCTGAGCTGGCTGAG 24 388	
QY		2449 AGAGCTTACCCCTGACAGCTGAGCTGGCTGAGCTGGCTGAGCTGGCTGAG 25 08	
Db		24 389 AGAGCTTACCCCTGACAGCTGAGCTGGCTGAGCTGGCTGAGCTGGCTGAG 24 448	
QY		2509 GTCACAGGTAGTACCTGGCTCAGGTTGCTGAGCTGGCTGAGCTGGCTGAG 25 68	
Db		24 449 GTCAAGGTAGTACCTGGCTCAGGTTGCTGAGCTGGCTGAGCTGGCTGAG 24 508	
QY		2569 ACCAGAACATAATGGCTCTACTCTCCACTGATCTGGCTGAGCTGGCTGAG 26 28	
Db		24 509 ACCAGAACATAATGGCTCTACTCTCCACTGATCTGGCTGAGCTGGCTGAG 24 568	
QY		2629 GGCCTGTGGAGGGCAGCTGCTGAGCTGGCCACACCATATAGCTATGTCACCCCTCC 26 88	
Db		24 569 GGCCTGTGGAGGGCAGCTGCTGAGCTGGCCACACCATATAGCTATGTCACCCCTCC 26 28	
QY		2689 TGCCCAAGCCGAGGGCAACCTCTGCTGAGCTGGCTGAGCTGGCTGAG 27 48	
Db		24 629 TGCCCAAGCCGAGGGCAACCTCTGCTGAGCTGGCTGAGCTGGCTGAG 24 688	
QY		2749 CTAAGAGCAACTGGAGCAAGGCCCTCCCTGGATGATCGAGGTCCCCAGTGTGAAAC 28 08	
Db		24 689 CTAAGAGCAACTGGAGCAAGGCCCTCCCTGGATGATCGAGGTCCCCAGTGTGAAAC 24 748	
QY		2809 AGAGTCAGCCAACTGGCTGAGCTGGCTGAGGGCTGAGCTGGCTGAG 28 68	
Db		24 749 AGAGTCAGCCAACTGGCTGAGCTGGCTGAGGGCTGAGCTGGCTGAG 24 808	
QY		2869 CAGAGCAGTGTGTTAATTAGGACAGCTGAGCTGGCTGAGCTGGCTGAG 29 28	
Db		24 809 CAGAGCAGTGTGTTAATTAGGACAGCTGAGCTGGCTGAGCTGGCTGAG 24 868	
QY		2929 GTCAGACTTGGCATATCTCAGTGTGTTAATTAGGACAGCTGGCTGAG 29 98	
Db		24 869 GTCAGACTTGGCATATCTCAGTGTGTTAATTAGGACAGCTGGCTGAG 24 928	
QY		2989 CTGGTTTAATTAGGACAGGATTTACCTGGCCCTGATGCTGAGCTGGCTGAG 30 48	
Db		24 929 CTGGTTTAATTAGGACAGGATTTACCTGGCCCTGATGCTGAGCTGGCTGAG 24 988	
QY		3049 GAGGCTGGAGAGGAGACTCTGGCTGAAATTCCAGGAACCTGGCTGAGCTGGCTGAG 31 08	
Db		24 989 GAGGCTGGAGAGGAGACTCTGGCTGAAATTCCAGGAACCTGGCTGAGCTGGCTGAG 25 048	

QY 3109 CTTGTTGTTACCGAAACTGCCCCAATCTGAGGAGCCACTATGCCAAGAGTCCTG 3168
 Db 25049 CTGTTGTTACCGAAACTGCCCCAATCTGAGGAGCCACTATGCCAAGAGTCCTG 25108

QY 3169 ACTCGAGAACTAGGTCCCTTCCAGCTGCTGCCAAGTGTCTGAGGCT 3228
 Db 25109 ACTCGAGAACTAGGTCCCTTCCAGCTGCTGCCAAGTGTCTGAGGCT 25168

QY 3229 GCCCCTCTCCAACTCACTCAAGTCCAAATCTAAATTCTAACAGGATCTGTGGG 3288
 Db 25169 GCCCCTCTCCAACTCACTCAAGTCCAAATCTAACAGGATCTGTGGG 25228

QY 3289 GGAACTTAAGTCGATTCGAGAACCTGGCTGAAAGGAACTGGGAAATGTCCT 3348
 Db 25229 GGAACTTAAGTCGATTCGAGAACCTGGCTGAAAGGAACTGGGAAATGTCCT 25288

QY 3349 AGAGGAACCTAGGTGGTGGAGCAGCCCCAACCTGGTTTCTGCACAGCATCAA 3408
 Db 25289 AGAGGAACCTAGGTGGTGGAGCAGCCCCAACCTGGTTTCTGCACAGCATCAA 25348

QY 3409 TCGTGAAGAACTCGGAGGGTGGAGTCATCTGGGGTTCTGCCCTTGACTCT 3468
 Db 25349 TCGTGAAGAACTCGGAGGGTGGAGTCATCTGGGGTTCTGCCCTTGACTCT 25408

QY 3469 ATCCCTGGCAAGAGTGGAACTTGAGACTGAACTAAATGCTCC 3528
 Db 25409 ATCCCTGGCAAGAGTGGAACTTGAGACTGAACTAAATGCTCC 25468

QY 3529 CGGCCCTTGACATTCTTCAGCTGGCCCTAGATTCTGCACTGGGCTCTGACA 3588
 Db 25459 CGGCCCTTGACATTCTTCAGCTGGCCCTAGATTCTGCACTGGGCTCTGACA 25528

QY 3589 CAACACACATCCAAAATGAGCTGGAAAGAGTAAACACAGGGGTTCTAAATGCTG 3648
 Db 25529 CAACACACATCCAAAATGAGCTGGAAAGAGTAAACACAGGGGTTCTAAATGCTG 25588

QY 3649 CCCGCCAACCGGGCTCCCTGGCAAGAGGATTGCAAGGCTAACCCCTCAA 3708
 Db 25589 CCCGCCAACCGGGCTCCCTGGCAAGAGGATTGCAAGGCTAACCCCTCAA 25648

QY 3709 CTACCAAGAACTGGCCACCCAGATTATTAATGTTGCCATTATTTATGAG 3768
 Db 25649 CTACCAAGAACTGGCCACCCAGATTATTAATGTTGCCATTATTTATGAG 25708

QY 3769 TTATGATCAATTGATTAATTAAGGTTACAGTGTCA 3807
 Db 25709 TTATGATCAATTGATTAATTAAGGTTACAGTGTCA 25747

QY 2029 TAGTCAGGAGAAAGGAGAACCAACCTCTGGGAAACCTGCAAGAGCCCTGC 2088
 Db 22506 TAGTCAGGAGAAAGGAGAACCAACCTCTGGGAAACCTGCAAGAGCCCTGC 22564

QY 2089 CGAGGAGATAGAGAACCTGGCCACTGGGAACTCTCCACTGGCCACT 2148
 Db 22565 CGAGGAGATAGAGAACCTGGCCACTGGGAACTCTCCACTGGCCACT 22633

RESULT 4
 US-09-927-091-5
 Sequence 5, Application US/09927091
 i Sequence 5, Application US/09927091
 i Patent No. US20020119541A1
 i GENERAL INFORMATION:
 i APPLICANT: KILLARY, ANN
 i APPLICANT: LOTT, STEVE
 i APPLICANT: CHANDLER, DAWN
 i TITLE OF INVENTION: THE TUMOR SUPPRESSOR CAR-1
 i FILE REFERENCE: US20020119541A1
 i CURRENT APPLICATION NUMBER: US/09/927,091
 i CURRENT FILING DATE: 2001-08-09
 i PRIOR APPLICATION NUMBER: US/09/227,560
 i PRIOR FILING DATE: 2000-08-23
 i PRIOR APPLICATION NUMBER: 61/225,033
 i PRIOR FILING DATE: 2000-08-10
 i NUMBER OF SEQ ID NOS: 9
 i SOFTWARE: PatentIn Ver. 2.1
 i SEQ ID NO: 5
 i LENGTH: 30625
 i TYPE: DNA
 i FEATURE: modified_base
 i NAME/KEY: modified_base

QY 2329 GCGAGGGACTACTTCAGTGTCTCCCTGAGCCAGCTGACTCTCCATCCCCTATGGAAACAGCTTGTATCAAGG 2388
 Db 22804 GCGAGGGACTACTTCAGTGTCTCCCTGAGCCAGCTGACTCTCCATCCCCTATGGAAACAGCTTGTATCAAGG 22863
 QY 2389 AGCATGGCCAGTAGTTGGAGCCCCAAAGAACACAGAACCTCATCCCATCTTCAGG 2448

22864	AGCATGCACTAGTGGACGCCGAAAGACACAGCACCCCTTATGCCCT 22923	Db
2449	AAGACTTACCCCTGACCAAGTAGTGTGACCCAGTCAACAGTCACAGT 2508	Qy
22924	AAGACTTACCCCTGACCAAGTAGTGTGACCCAGTCAACAGTCACAGT 22983	Db
2509	GTCAGGTTAATCTGGCTTAGGGTGGCTGAGGCCAACCTCTGCCAACCCCAC 2568	Qy
22984	GTCAGGTTAATCTGGCTTAGGGTGGCTGAGGCCAACCTCTGCCAACCCCAC 23043	Db
2569	ACCAAGAACATACTATGETTCTTCACTACTCTCCACAGTATGTCAGTGTGCTTG 2628	Qy
23044	ACCAAGAACATACTATGETTCTTCACTACTCTCCACAGTATGTCAGTGTGCTTG 23103	Db
2629	GCCTGTGAGGCAACTGGTGGCTAGTTGAGTCCACATTATAGTCATGTGCTTG 2688	Qy
23104	GCCTGTGAGGCAACTGGTGGCTAGTTGAGTCCACATTATAGTCATGTGCTTG 23163	Db
2689	TGCCCAAGGGCGAGGGCAAGGGTAGGGTAAAGCTGATGCCAGAGCCATTAGC 2748	Qy
23164	TGCCCAAGGGCGAGGGCAAGGGTAGGGTAAAGCTGATGCCAGAGCCATTAGC 23223	Db
2749	CTAAAGGCAACTGGCGAACAGCTTCCCTGGATGATGGGGTCCCATAGTGTGACAA 2808	RESULT 5
23224	CTAAAGGCAACTGGCGAACAGCTTCCCTGGATGATGGGGTCCCATAGTGTGACAA 23283	US-09-927-091-6
2809	AGAGTCAGCAACCCCTTCAAGCAGGGCTCTGTGACTCTGTAGGGGTCAGGGGTTTC 2868	Sequence 6, Application US/09927091
23284	AGAGTCAGCAACCCCTTCAAGCAGGGCTCTGTGACTCTGTAGGGGTCAGGGGTTTC 23343	Patent No. US0020119541A1
2869	CAGAGCAGTTGTTGAAATTAGGACCCAGGACT-GGGAGGGCTGTTGGTAGACCCCT 2927	GENERAL INFORMATION:
23344	CAGAGCAGTTGTTGAAATTAGGACCCAGGACT-GGGAGGGCTGTTGGTAGACCCCT 23403	APPLICANT: KILLARY, ANN
2928	TGTAGACTGGCATCTCATCTAGTGGATCTCTGGGTTGGGTGTTGGTAGACCTGTA 2987	APPLICANT: LOTT, STEVE
23404	TGTAGACTGGCATCTCATCTAGTGGATCTCTGGGTTGGGTGTTGGTAGACCTGTA 23463	APPLICANT: CHANDLER, DAWN
2988	GCTGTTTAAATTAGCAAGGGATTACTACTGCCCCCTGTGACTTGCATAAATTGTGGA 3047	TITLE OF INVENTION: THE TUMOR SUPPRESSOR CAR-1
23464	GCTGTTTAAATTAGCAAGGGATTACTACTGCCCCCTGTGACTTGCATAAATTGTGGA 23523	FILE REFERENCE: USPC-6511US
3048	AGAGCTGGAAAGGAGACTCTGCTGAATTCAGGAACCTCCAGGAACTTCAGGA 3107	CURRENT FILING DATE: US/09/927,091
23524	AGAGCTGGAAAGGAGACTCTGCTGAATTCAGGAACCTCCAGGAACTTCAGGA 23583	PRIOR APPLICATION NUMBER: 60/227,560
3108	TCTGTTGTTGACCCACTTCAGTCAAGTGTGCTGAAATTCCAGGAAGCTTCAGGA 3167	PRIOR FILING DATE: 2000-08-23
23584	TCTGTTGTTGACCCACTTCAGTCAAGTGTGCTGAAATTCCAGGAAGCTTCAGGA 23643	PRIOR APPLICATION NUMBER: 60/225,033
3168	GACTCGAGACTAGTCCCTCTGCCACGGCAATAGATGTCCTGAGGCC 3227	PRIOR FILING DATE: 2000-08-10
23644	GACTCGAGACTAGTCCCTCTGCCACGGCAATAGATGTCCTGAGGCC 23703	NUMBER OF SEQ ID NOS: 9
3228	TGCCCTTCTCCACTTCAGTCAAGGAAACTCTGCTGAAAGCCACTATGCAAGAAAGCTG 3287	SOFTWARE: Patentin Ver. 2.1
23704	TGCCCTTCTCCACTTCAGTCAAGGAAACTCTGCTGAAAGCTGCTGAAATTCAGTTC 23763	SEQ ID NO: 6
3288	GGAACACTTAAAGTCAGATCCAGAACCTTGGCAAGGGAACTCTGCTGAAAGCTC 3347	LENGTH: 45845
23764	GGAACACTTAAAGTCAGATCCAGAACCTTGGCAAGGGAACTCTGCTGAAAGCTC 23823	TYPE: DNA
3348	TAGAGGAAGTTAGGTGGTGGCTGAGGCCAACCTCTGCTGAGGAACTATGCAAGCATCCA 3407	ORGANISM: Human
23824	TAGAGGAAGTTAGGTGGTGGCTGAGGCCAACCTCTGCTGAGGAACTATGCAAGCATCCA 23883	US-09-927-091-6
3408	ATCGTGAAGAACCTGGGAAAGGGTGGAGTCCAACTTCTGGGTTCTGGCTT 3467	Qy
23884	ATCGTGAAGAACCTGGGAAAGGGTGGAGTCCAACTTCTGGGTTCTGGCTT 23943	Db
3468	TATCCCTGGCCAGGGTGGGAACTGGGAAAGTGGGAACTGGGAAACTGGGCTAAATGTCTC 3527	Qy
3528	CCCGGCTTGTACTTCTGACTTCTGCTGGGCTTGTGACTTCTGCTGGGCTTGTGAC 3587	Db
24004	CCCGGCTTGTACTTCTGACTTCTGCTGGGCTTGTGACTTCTGCTGGGCTTGTGAC 24063	Qy
3588	AACACACACCACTCCAAAGTAGCAGGAAAGACTAACACAGGGGTTCTAAATGGCTG 3647	Db
24064	AACACACACCACTCCAAAGTAGCAGGAAAGCTAACACAGGGGTTCTAAATGGCTG 24123	Qy
3648	CCCCCGCACCGGGGCTCCCTGGCCAAGGGAACTCCAAACCCCTTCA 3707	Db
24124	CCCCCGCACCGGGGCTCCCTGGCCAAGGGAACTCCAAACCCCTTCA 24183	Qy
3708	ACTACAGAACTGTGCCCCACCCAGGATTTTTATTTATTTATGTCATTTATGAA 3767	Db
24184	ACTACAGAACTGTGCCCCACCCAGGATTTTTATTTATGTCATTTATGAA 24283	Qy

RESULT 7
US-10-027-632-100265/C

Sequence 100265, Application US/10027632
 GENERAL INFORMATION: Publication No. US2003004075A9
 APPLICANT: Wang, David G.
 TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms in the Human Genome
 FILE REFERENCE: 108827.129
 CURRENT APPLICATION NUMBER: US 10/027, 632
 CURRENT FILING DATE: 2002-04-30
 PRIOR APPLICATION NUMBER: US 60/218, 006
 PRIOR FILING DATE: 2000-07-12
 PRIOR APPLICATION NUMBER: US 60/198, 676
 PRIOR FILING DATE: 2000-04-04
 PRIOR APPLICATION NUMBER: US 60/193, 483
 PRIOR FILING DATE: 2000-03-29
 PRIOR APPLICATION NUMBER: US 60/185, 218
 PRIOR FILING DATE: 2000-02-24
 PRIOR APPLICATION NUMBER: US 60/167, 363
 PRIOR FILING DATE: 1999-11-23
 PRIOR APPLICATION NUMBER: US 60/156, 358
 PRIOR FILING DATE: 1999-09-28
 PRIOR APPLICATION NUMBER: US 60/146, 002
 PRIOR FILING DATE: 1999-08-09
 NUMBER OF SEQ ID NOS: 325720
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO: 100265
 LENGTH: 610
 TYPE: DNA
 ORGANISM: Human
 US-10-027-032-100265

Query Match Score 69.6; DB 15; Length 610;
 Best Local Similarity 99.8%; Pred. No. 1.5e-15;
 Matches 609; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 2345 CCAAGTGTCCCTCCAGCCCCAGCTTGAACTTCAGGAAGTCAAGCATGGCAGTAGT 2404
 Db 610 CCAAGTGTCCCTCCAGCCCCAGCTTGAACTTCAGGAAGTCAAGCATGGCAGTAGT 551

Qy 2405 GCGAGGCCAAAGACACA UGAGACCCCTPATGTCCTAGAGCTTACCCCTGAC 2464
 Db 550 GCGAGGCCAAAGACACA UGAGACCCCTPATGTCCTAGAGCTTACCCCTGAC 491

Qy 2465 CAAGCTAGTGTATGGCCATTACCCCTGACCCAGCTCCACAGTGTCAAGGTAGTACT 2524
 Db 490 CAAGCTAGTGTATGGCCATTACCCCTGACCCAGCTCCACAGTGTCAAGGTAGTACT 431

Qy 2525 GTCCTCTAGGTTGCCAGAGCCAACCTCTGCCACCCACACCTATATG 2584
 Db 430 GTCCTCTAGGTTGCCAGAGCCAACCTCTGCCACCCACACCTATATG 371

Qy 2585 TTCCCTACTCTCCACTGATGTGCTGCTGTGATGTGTGCGCTGTGGAGGCCAC 2644
 Db 370 TTCCCTACTCTCCACTGATGTGCTGCTGTGATGTGTGCGCTGTGGAGGCCAC 311

Qy 2645 TGGTAGTTGAGTCACACATTATAGTCATGTGCCACACGCCCTTCAGCCACGCC 2704
 Db 310 TGGTAGTTGAGTCACACATTATAGTCATGTGCCACACCCCTTCAGCCACGCC 251

Qy 2705 GACAGGGTAGGGTACCCAAAGCTGATGGAGGCCATTAGCTAAAGCAACTGAG 2764
 Db 250 GACAGGGTAGGGTACCCAAAGCTGATGGAGGCCATTAGCTAAAGCAACTGAG 191

Qy 2765 GACAAGGCTCCCTGGATGTCAGGTCAGCTGATGTCAGAGTCAGCCAAACCC 2824
 Db 190 GACAAGGCTCCCTGGATGTCAGGTCAGCTGATGTCAGAGTCAGCCAAACCC 131

Qy 2825 TCTTCAGCAGGCCCTCTGACCTGAGCTGATGTCAGAGTCAGCCAAACCC 2884
 Db 130 TCTTCAGCAGGCCCTCTGACCTGAGCTGATGTCAGAGTCAGCCAAACCC 71

Qy 2885 ATTAGAACCCAGCACTGGAGGGCTGTGGCTGATGCCACCTGTGAGACTGGCAT 2944

Db 70 AATTAGGACCCAGCACTGGAGGGCTGTGGCTGAGACTGGCATCT 11
 Qy 2945 ATTCAGTAA 2954
 Db 10 ATTCAGTAA 1

RESULT 8
 US-09-864-761-7231/C
 ; Sequence 7231, Application US/09864761
 ; GENERAL INFORMATION:
 ; Patent No. US20020048763A1
 ; APPLICANT: Penn, Sharron G.
 ; APPLICANT: Rank, David R.
 ; APPLICANT: Hanzel, David K.
 ; APPLICANT: Chen, Wenhong
 ; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR GENE EXPRESSION ANALYSIS BY MICROARRAY
 ; FILE REFERENCE: Aeonica X-1
 ; CURRENT APPLICATION NUMBER: US 09/864-761
 ; CURRENT FILING DATE: 2001-01-23
 ; PRIOR APPLICATION NUMBER: US 60/180, 312
 ; PRIOR FILING DATE: 2000-02-04
 ; PRIOR APPLICATION NUMBER: US 60/207, 455
 ; PRIOR FILING DATE: 2000-05-26
 ; PRIOR APPLICATION NUMBER: US 09/332, 366
 ; PRIOR FILING DATE: 2000-08-03
 ; PRIOR APPLICATION NUMBER: GB 24263, 6
 ; PRIOR FILING DATE: 2000-10-04
 ; PRIOR APPLICATION NUMBER: US 60/236, 359
 ; PRIOR FILING DATE: 2000-09-27
 ; PRIOR APPLICATION NUMBER: PCT/US01/00666
 ; PRIOR FILING DATE: 2001-01-30
 ; PRIOR APPLICATION NUMBER: PCT/US01/00667
 ; PRIOR FILING DATE: 2001-01-30
 ; PRIOR APPLICATION NUMBER: PCT/US01/00664
 ; PRIOR FILING DATE: 2001-01-30
 ; PRIOR APPLICATION NUMBER: PCT/US01/00669
 ; PRIOR FILING DATE: 2001-01-30
 ; PRIOR APPLICATION NUMBER: PCT/US01/00665
 ; PRIOR FILING DATE: 2001-01-30
 ; PRIOR APPLICATION NUMBER: PCT/US01/00668
 ; PRIOR FILING DATE: 2001-01-30
 ; PRIOR APPLICATION NUMBER: PCT/US01/00663
 ; PRIOR FILING DATE: 2001-01-30
 ; PRIOR APPLICATION NUMBER: PCT/US01/00662
 ; PRIOR FILING DATE: 2001-01-30
 ; PRIOR APPLICATION NUMBER: PCT/US01/00661
 ; PRIOR FILING DATE: 2001-01-30
 ; PRIOR APPLICATION NUMBER: PCT/US01/00670
 ; PRIOR FILING DATE: 2001-01-30
 ; PRIOR FILING DATE: 2000-09-21
 ; NUMBER OF SEQ ID NOS: 49117
 ; SOFTWARE: Annmax Sequence Listing Engine vers. 1.1
 ; SEQ ID NO: 7231
 ; LENGTH: 573
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; OTHER INFORMATION: MAP TO AC022262.3
 ; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 4.8
 ; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 3.9
 ; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 4.5
 ; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 4.6
 ; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 4.2
 ; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 4.1
 ; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 3.2

US-09-864-761-7231

Query Match 14.7%; Score 562; DB 9; Length 573;
Best Local Similarity 99.8%; Pred. No. 1.7e-143; Gaps 1;
Matches 573; Conservative 0; Mismatches 0; Indels 1;

Qy 1602 CTTCGAATGGGGTGTGGGCTGGTTCTGAAGCCCTAGTAGTGGGTCACACTG 1661
Db 573 CTTCGAATGGGGTGTGGGCTGGTTCTGAAGCCCTAGTAGTGGGTCACACTG 514

Qy 1662 GAGGGTGTGGGGCTGGAGAGACCAAGCTGGTGTGGAGACAGAAACCGGAAG 1721
Db 513 GAGGGTGTGGGGCTGGAGAGACCAAGCTGGTGTGGAGACAGAAACCGGAAG 454

Qy 1722 CCCAAGGGAGATCCAGATCCAGATCCAGCAGCGGGCTTACAGTGTGAGA 1781
Db 453 CGGCCAAGGGAGATCCAGATCCAGCAGCGGGCTTACAGTGTGAGA 394

Qy 1782 TGGCAACCAAGTAGACGCCCTTGACGGAGCCCTGAACTGTGGACACACT 1841
Db 393 TGGCAACCAAGTAGACGCCCTTGACGGAGCCCTGAACTGTGGACACACT 334

Qy 1842 TGGCAACCAAGTAGACGCCCTTGACGGAGCTGCTCATCTACATGTGGA 1901
Db 333 TGGCAACCAAGTAGACGCCCTTGACGGAGCTGCTCATCTACATGTGGA 274

Qy 1902 TGGACATCTCTGGCTCTACATGACCAAGGCTGCTCATCTACATGTGGA 1961
Db 273 TGGACATCTCTGGCTCTACATGACCAAGGCTGCTCATCTACATGTGGA 214

Qy 1962 CAGCCCTGGCCAGGCCAACATGCCAGAACGCTTACGGGATCACACCGT 2021
Db 2113 CAGCCCTGGCCAGGCCAACATGCCAGAACGCTTACGGGATCACACCGT 154

Qy 2022 CGGCATCTAGTCAGGGAGAGGAGCAGAACCTGGACCAACTGCTGCAAGA 2081
Db 153 CCCATCTAGTCAGGGAGAGGAGCAGAACCTGGACCAACTGCTGCAAGA 94

Qy 2082 GGCCTGGCCAGGAAGATAAGAGACCTGGAACCTCCAGCTGGGACTCTGA 2141
Db 93 GGCCTGGCCAGGAAGATAAGAGACCTGGAACCTCCAGCTGGGACTCTGA 35

Qy 2142 GGCCAGTTGTGTTACCCCTCCAGCTGTGA 2175
Db 34 GGCCAGTTGTGTTACCCCTCCAGCTGTGA 1

RESULT 9

US-09-864-761-23162/C
; Sequence 23162, Application US/09864761
; Patent No. US2004876A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharron G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanel, David K.
; APPLICANT: Chen, Wenheng
; TITLE OF INVENTION: HUMAN GENOME-DEIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; FILE REFERENCE: Aeonics-X-1
; CURRENT APPLICATION NUMBER: US 09/864,761
; CURRENT FILING DATE: 2001-05-23
; PRIORITY APPLICATION NUMBER: US 60/180,312
; PRIORITY FILING DATE: 2000-02-04
; PRIORITY APPLICATION NUMBER: US 60/207,456
; PRIORITY FILING DATE: 2000-05-26
; PRIORITY APPLICATION NUMBER: US 09/632,366
; PRIORITY FILING DATE: 2000-08-03
; PRIORITY APPLICATION NUMBER: GB 24263,6
; PRIORITY FILING DATE: 2000-10-04
; PRIORITY APPLICATION NUMBER: US 60/236,359
; PRIORITY FILING DATE: 2000-09-27
; PRIORITY APPLICATION NUMBER: PCT/US01/00666
; PRIORITY FILING DATE: 2001-01-30

US-09-927-091-3.rnpb

Query Match 11.3%; Score 431; DB 9; Length 431;
Best Local Similarity 100.0%; Pred. No. 1.3e-107; Gaps 0;
Matches 41; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1643 GTAGTGGCTCCACTACTGGGAGCTGGTGGGGTGTGGGTGATGGGC 1702
Db 431 GTAGTGGCTCCACTACTGGGAGCTGGTGGGGTGTGGGTGATGGGC 372

Qy 1703 TGGCACACAAAGCGCAAGGCCAACGGCAGATCCAGATCAGCCAGCT 1762
Db 371 TGGCACACAAAGCGCAAGGCCAACGGCAGATCCAGATCAGCCAGCT 312

Qy 1763 ACTGATCTGTGACCATGACCATGGAACAGCTGACGGGCTGACGGGCG 1822
Db 311 ACTGATCTGTGACCATGGAACAGCTGACGGGCTGACGGGCG 252

Qy 1823 TTAAGTGGCTGGGACAAGTTGACAGTGGGTCTCTGGACTATGACAAAGCTGGTGC 1882
Db 251 TTAAAGTGGCTGGGACAAGTTGACAGTGGGTCTCTGGACTATGACAAAGCTGGTGC 192

Qy 1883 TCATCTCTCATAGTGTGACATGTCCTGCTGGCTACACCTTCCCGAGAAAGTTCCCTG 1942
Db 191 TCATCTCTCATAGTGTGACATGTCCTGCTGGCTACACCTTCCCGAGAAAGTTCCCTG 132

Qy 1943 GCAAGTCCTGCTCTACATGTCCTGCTGGCAAGGCAAGCTGTCAGC 2002
Db 131 GCAAGTCCTGCTCTACATGTCCTGCTGGCAAGGCAAGCTGTCAGC 72

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US-09-764-868-118
; Sequence 418, Application US/09764868
; Patent No. US20020168711A1
; GENERAL INFORMATION:
;   TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
;   FILE REFERENCE: PT232
;   CURRENT APPLICATION NUMBER: US/09/764,868
;   CURRENT FILING DATE: 2001-01-17
;   Prior application data removed - refer to P1M or file wrapper
;   NUMBER OF SEQ ID NOS: 1510
;   SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 418
; LENGTH: 1394
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-764-868-418

Query Match          3.6%;  Score 136.4;  DB: 9;  Length 1394
Best Local Similarity 54.9%;  Pred. No. 1.9e-26;
Matches 269;  Conservative 0;  Mismatches 221;  Indels 0

  Qy          1482 GCGAGCGCCCTAACCTGAGCCCGGCAAGGCCACCCAGGCGCTGATCCCTG
  Db          45 GCGAGCGGATGTGACCTGGAACCTGAGAGCTCATCTTAACCTACTCCCTG
  Qy          1542 CTGCAACCATTTGGCTTAACGCAACTTGACCAAGGCAACTCAGGAACTCC
  Db          105 TCGTAAGAGGGTCAAGTTGTGGAGAACAGCTCGGAAATTCCTGACAC
  Qy          1602 CTTGAGTGTGGAGGTCTCGGGCTGGTTGAGCCGTACTGGTTTACCTCTGAG
  Db          165 TTACCTTCACCCCTGGCTCTGGTACTGGGTTCACCTCTGAGTGG
  Qy          1662 GGAGGNGTGTGGGGGAGAACCGAGTGGTATCGGGCTGGCAACAGAA
  Db          225 GGAGGTGGGGGACAGAACCTGGGATGGGGGAGAACCTGGGATGGGGAA
  Qy          1722 CGGCAAGGGGACATCGAGTCAACCCGGGCTCTACTGCTATCGT
  Db          285 CGGAAAGGGGAGGTGACTCCCTGAGAGCTGGACTGGGACTGGGGGGGG
  Qy          1782 TGGCAAATGAGTACAGGGCTTGACCGAGCCCTGAGCGGGCTAACGTCGG
  Db          345 TGGGCAAAATPATGAGCCRCACACACCTTACCCCTTGGACATCAA
  Qy          1842 TGGAAAGGTGGGTGCTTCCTGGACTATGCAAGGGTGTGCTATCTCTAA
  Db          405 CTAGGGTAGGGATTCCTAGACTATGGCCGGCAACTGCTCTCTCTA
  Qy          1902 TGCATGTCCTGGCTTAACACTTCTGGGAGAAAGTCCCTGGCAAGGCTCTGG
  Db          465 AGACGCTCTCATATCTCATACCTCTGATCTTACTGAGAACCTTG
  Qy          1962 CAGCCCTGGC 1971
  Db          525 CTACCCAGGC 534

RESULT 12
US-10-120-968-277
; Sequence 277, Application US/10120968
; Publication No. US20030219745A1
; GENERAL INFORMATION:
;   APPLICANT: Tang, Y. Tom
;   APPLICANT: Goodrich, Ryle
;   APPLICANT: Liu, Chenghua
;   APPLICANT: Ren, Peiyuan
;   APPLICANT: Wang, Dunrui
;   APPLICANT: Dimanac, Radoje T.
;   TITLE OF INVENTION: No. US20030219745A1 Nucleic Acids and
;   TITLE OF INVENTION: No. US20030219745A1 Nucleic Acids and
;   FILE REFERENCE: 803CON

```

CURRENT APPLICATION NUMBER: US/10/120,988
 CURRENT FILING DATE: 2002-04-11
 PRIOR APPLICATION NUMBER: 09/774,528
 PRIOR FILING DATE: 2001-01-30
 NUMBER OF SEQ ID NOS: 441
 SOFTWARE: SEQ FL_Genes Version 2.0
 SEQ ID NO: 277
 LENGTH: 3048
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE: CDS
 NAME/KEY: CDS
 LOCATION: (1)..(1557)

Query Match Score 132.
 Best Local Similarity 3.5%; Pred. No. 0; Mismatches 0.
 Matches 265; Conservative 54.5%; Match/ Mismatch 54.5%.

Start	End	Sequence
20y	20y	GCGCCCTAAACCCTGACCCGGACAGCC
20y	20y	1009 GCGGATGTGACCTTGACCCCTGACAGCT
20y	20y	1546 ACCATGTGGTTAGGCACATTGCACTCA
20y	20y	1069 AAGAGGGTCAGATTCGTCGAGACAAGACTC
20y	20y	1606 GATGTGGAGGTGTCGGTGGGTTCTGTA
20y	20y	1129 ACCTCTACCTTGCTGGCTCTGGTACTGAG
20y	20y	1666 GTGGTGGTGGGGAGAGAACCCAGTGGGTC
20y	20y	1189 GTGGAGGTGGCGCAGAACCCACTGGCAG
20y	20y	1726 AAGGGCAGCATCCAGATGCCAGATCCAGCAGCCG
20y	20y	1249 AAGGGCAGATGACTCACATCCCTGAGACT
20y	20y	1786 AACCACTAACGGCTTGAGGGACGCCCTGG
20y	20y	1309 GACAAATATGGCCAGCACACCTTTC
20y	20y	1846 AAGGGGGTTCTTCCTGGACTAACCAA
20y	20y	1369 CGGGTAGGCATATTCTAGACTATGGGCCAA
20y	20y	1906 ATGTCCTGGCTCTAACCTTCACGATACT
20y	20y	1429 CGCTCTCATATCTACCTTCACGATACT
20y	20y	1966 CCTGGC 1971
20y	20y	1489 CCAGGC 1494

RESULT 13
 US/10-104-047-103
 Sequence 103, Application US/10104047
 Publication No. US20030236392A1
 GENERAL INFORMATION:
 APPLICANT: HELIX RESEARCH INSTITUTE
 TITLE OF INVENTION: NO. US20030236392A1
 FILE REFERENCE: H1-A0105
 CURRENT APPLICATION NUMBER: US/10/104,047
 CURRENT FILING DATE: 2002-03-25
 PRIOR APPLICATION NUMBER:
 PRIOR FILING DATE:
 NUMBER OF SEQ ID NOS: 4096
 SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO: 103
 LENGTH: 1904
 TYPE: DNA

Query	Match	Score	Length	DB	10;	Length	1739;
Qy	Best Local Similarity	3.2%					
Ddb	Matches	51.9%					
Qy	300; Conservative	1.9e-22;					
Ddb	0; Mismatches	1.9e-22;					
Qy	1419	CAAATACACAGGCCCTGTAGTACACATCTGGAAAGTCCAGAACATCCACCC	1478				
Ddb	1070	CGATACAAAGTGTCTATCGTACATGGTATGGGGAAATCAGGACACTTCTGCC	1129				
Qy	1479	AGTGCACGCCCTAAACCTGGACCCGGCACGCCAACAGCCCTGATCCCTGTGGA	1538				
Ddb	1130	AGGCCTGTCTCACTACTGACCTAAACAGCTACCAAAATGGTGTCTCAA	1189				
Qy	1539	CGACTGCACATTTGGCTTAACGCAACTGACCCACAGCCACTGGGACTCGCCAA	1598				
Ddb	1190	AAGCAAACAGCTCTGGATGGTACATTTAGATGCTGATCATCTCGA	1246				
Qy	1599	GGCTTCGATGTGGAGGTTGGTGGCTGGTCTGGTTCTGAAGCCTCTAGTACTGGGTCCACTA	1658				
Ddb	1247	GAGGTGTGACTCAAGTGTGTTACTGGCTGAGGGCTCAAGGGCTTACCTCTGGAGAGTGTAA	1306				
Qy	1659	CTGGAGGGCTGGTGGCGAGAGACCCAGTGGTATGGCTGGACACAAAGCGCG	1718				
Ddb	1307	CTGGAACTGAACTAGCAAAAGACAAATGGACAGTTGAGTTGTCAAGAAATCCAT	1366				
Qy	1719	AAGGGCAAGGGGAGCATCAAGTCAGCAGGGCTTCACTCTGATCTGATGCA	1778				
Ddb	1367	CATTCGGGAGGGGAGCTGTTCTAACTCTGACAAAGGATTTGGCTTAAAGCTAAG	1426				
Qy	1779	CGATGGCACCACTACAGGGCCTGACGGAGCCCTGAGCGGCTTAACTGTCGGGAGAA	1838				
Ddb	1427	GRACCAAAATGATCTAAGGCTGGATCTGGATTGCTCTTCAGTGTGAACTGACTAARDAA	1486				
Qy	1839	GCTTGACACAGGTGGGGTGTCTTCTGGACTATGACCAAGGCTTGTCTATCTTACATGTC	1898				